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A COMPILATION OF $K_L^\circ p$ CROSS SECTIONS

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Abstract - A compilation of data on $K_L^\circ p$ interactions is presented. The compilation includes data on total and integrated cross sections, differential distributions, coefficients of the Legendre polynomial expansions of the differential distributions. For the $K_S^\circ p$ final state are given also the forward cross sections and the phase of the forward scattering amplitude. Polarization data and coefficients of polynomial expansions are tabulated for the $\pi^+\Lambda^\circ$ and $\pi^+\Sigma^\circ$ final states.

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1. INTRODUCTION

In this report a collection of $K^{o}_{L}p$ interaction cross sections is presented. The major part of the data concern integrated cross sections and differential distributions for the reactions:

$$K^{o}_{L}p \longrightarrow K^{o}_{S}p \qquad (1)$$

$$\longrightarrow \pi^{+}\Lambda^{o} \qquad (2)$$

$$\longrightarrow \pi^{+}\Sigma^{o} \qquad (3)$$

The forward cross sections and the phase of the forward scattering amplitude are given for reaction (1). Polarization data are given for reactions (2) and (3). Moreover the total cross sections for several inelastic channels are tabulated.

The compilation was started in conjunction with a low energy experiment on $K^{o}_{L}p$ interactions in a bubble chamber[1].

The method used in this data collection, the formats and the notations are similar to those used by the CERN-HERA group[2], the Berkeley particle data group[3] and in the Landolt-Börnstein compilation[4]. In fact this report may be considered an update of the LBL-55 report[3].

The analysis of the literature was stopped on June 30th, 1981.

In any compilation it is difficult to avoid mistakes and omissions. We apologize for them and hope that the authors will inform us of faults, of omissions and of re-analyses.

2. DATA TABLES

This collection has been arranged in the form of data blocks as illustrated in Tables 1 and 2. There are a total of 2455 experimental data points; they are broadly classified in (a) total, integrated elastic and inelastic cross

sections, each with one point per energy, and (b) differential cross sections and polarizations (one angular distribution per energy).

Inside each block the data are arranged in order of increasing energy. For differential cross sections the blocks are further divided into sub-blocks, consisting of an angular distribution at a particular energy.

The third kind of tables lists the coefficients A_1/A_o of the Legendre polynomial expansion of the angular distributions of reactions (1), (2) and (3) and the coefficients B_1/B_o of the polarization for reactions (2) and (3).

For the total and integrated cross sections the tables list, for each data point, the following quantities:

PLAB laboratory momentum of the incident K (GeV/c)

ECM c.m. total energy (GeV)

PCM c.m. momentum of the incident particles (GeV/c)

SIGMA cross section (mb)

ERROR statistical, or point-to-point error (mb)

SYS ER sistematic or scale error (%)

TEC experimental technique used (following the codes of Table 3)

REF short reference

For the angular distributions the tables list for each momentum a heading containing information similar to that given for the total and integrated cross sections . Then for each data point of the differential cross-sections the tables give:

THLAB laboratory scattering angle of the meson (degrees)

COSTH* cosinus of the c.m. scattering angle of the meson

T four-momentum transfer $(GeV/c)^2$

DSIG/DOM* c.m. differential cross section (mb/sr)

ERROR statistical error on the c.m. differential cross sections (mb/sr)

DSIG/DT invariant differential cross section $\{mb/(GeV/c)^2\}$

ERROR statistical error on the invariant cross section $\{mb/(GeV/c)^2\}$

For each data point of the polarization distribution, after THLAB, COSTH* and T, the tables give:

P polarization parameter

ERROR statistical error on the polarization parameter

The kinematical quantities have been computed using the formulae listed in the Appendix. The codes are listed in Table 3.

3. COMMENTS ON THE DATA

The errors quoted in the literature are not completely consistent. For instance some authors quote a separate scale error, while others combine it with the statistical uncertainty. Therefore it is difficult to avoid some inconsistencies[2]. We quote two errors, a point-to-point error and a systematic one. If the error given in the published paper includes also systematic effects, we quote it, as given by the authors, as a point-to-point error. But we still quote a systematic error, estimated from the type of experiment.

The non monochromaticity of the K°_{L} beams introduces an energy uncertainty; it would often be important to quote an estimate of the energy uncertainty.

Unless specifically stated, we quoted the numbers as published. When the results were presented only in graphic form we wrote to the authors in order to obtain the corresponding numbers. In some cases we were forced to deduce the numbers directly from the graphs or from the compilation of ref. 3.

In the case of several publications concerning the same experiment, we generally quoted only the values from the final publication.

Some specific comments on the data will now be made.

3.1 Cross section normalization

Since the incoming beam is neutral, one cannot have a direct counting of its flux. Most experiments have determined the absolute flux with a separate calibration. In many experiments the $\pi^{+}\Lambda^{\circ}$ channel was used as a calibration, checking its cross section with the $\pi\Lambda$ cross sections measured in

K^-p and K^-n reactions. Rarely the absolute calibration was performed to better than $\pm$10%.

3.2 The $K^\circ_S p \longrightarrow K^\circ_S p$ reaction

For this reactions the data tables give integrated cross sections, differential cross sections, values of the coefficients A_1/A_o of the Legendre polynomial expansion, the t=0 cross section (at low energies it is obtained from the angular dependence of the Legendre polynomial expansion) and the phase of the forward amplitude. This last quantity is computed as:

$$\Phi = tg^{-1}\left[\text{Im } f(0)/\text{Re } f(0)\right] = tg^{-1}\left[\frac{(d\sigma/dt)_{t=0}}{(d\sigma/dt)_{optical}} - 1\right]^{1/2} \qquad (4)$$

where:

$$\left(\frac{d\sigma}{dt}\right)_{optical} = \frac{1}{64\pi} \frac{(\sigma^{tot}_{K^-n} - \sigma^{tot}_{K^+n})^2}{\hbar c} \qquad (5)$$

In the literature one often finds the quantity

$$|F| = \frac{f(K^\circ p \longrightarrow K^\circ p)_{t=0} - \bar{f}(\bar{K}^\circ p \longrightarrow \bar{K}^\circ p)_{t=0}}{p_{cm}} \qquad (6)$$

The relation between $|F|$ expressed in mb and $(d\sigma/dt)_{t=0}$ expressed in $mb/(GeV/c)^2$ is:

$$\left(\frac{d\sigma}{dt}\right)_{t=0} = \frac{\pi}{4x0.624^2} |F|^2 = 2.017 |F|^2 \qquad (7)$$

In the table we only quote $(d\sigma/dt)_{t=0}$.

3.3 The $K^\circ_L p \longrightarrow \pi^+ \Lambda^\circ$ and $\longrightarrow \pi^+ \Sigma^\circ$ reactions

For this reactions are given: (i) the integrated cross sections; (ii) the

differential cross sections; (iii) the polarizations; (iv) the values of the coefficients A_1/A_o and B_1/B_o of the Legendre polynomial expansions.

It may be worth remembering that the c.m. scattering angle ϑ^* is between the incoming K^o_L and the outgoing π^+; the t-value is also between the K^o_L and π^+.

3.4 Three and four-body final states

These have been measured only in bubble chamber experiments. The data are very scarce and have relatively large statistical uncertainties.

3.5 The coefficients A_1/A_o and B_1/B_o

In each energy interval the data were fitted to the Legendre polynomial expansion to determine the coefficients A_1/A_o and B_1/B_o. The fits were performed up to the fourth order, in general using the maximum likelihood method on an event by event basis[1]. No higher order coefficients were found to be necessary.

4. ACKNOWLEDGEMENTS

We would like to thank all those colleagues who have sent us information and data from their experiments. The cooperation of the members of the BGGPR collaboration is gratefully acknowledged. We thank Mrs. F. Santucci and Dr. F. Viaggi for their friendly cooperation.

Table 1 - Data blocks for total, integrated, elastic and inelastic cross sections for $K^{o}_{L}p$ interactions. Also given are the data blocks for various forward quantities.

Codes	Reaction	Number of data points
KLP=TOTAL	$K^{o}_{L}p \longrightarrow$ total	11
KLP=K+N	$\longrightarrow K^{+}n$	1
KLP=KSP	$\longrightarrow K^{o}_{S}p$	114
KLP=LO+	$\longrightarrow \pi^{+}\Lambda^{o}$	74
KLP=SO+	$\longrightarrow \pi^{+}\Sigma^{o}$	78
KLP=S+ PIO	$\longrightarrow \pi^{o}\Sigma^{+}$	1
KLP=LO+O	$\longrightarrow \Lambda^{o}\pi^{+}\pi^{o}$	15
KLP=S- ++	$\longrightarrow \Sigma^{-}\pi^{+}\pi^{+}$	1
KLP=K+P-	$\longrightarrow K^{+}p\pi^{-}$	10
KLP=K-P+	$\longrightarrow K^{-}p\pi^{+}$	10
KLP=KS PI+ PI- PI+	$\longrightarrow K^{o}_{S}\pi^{+}\pi^{-}\pi^{+}$	16
KLP=KSP	$\longrightarrow K^{o}_{S}P$ phase	49
"	$\longrightarrow K^{o}_{S}P \left(\frac{d\sigma}{dt}\right)_{t=0}$	58
KLP=LO+	$\longrightarrow \pi^{+}\Lambda^{o}$ "	5
KLP=SO+	$\longrightarrow \pi^{+}\Sigma^{o}$ "	5
	Total	448

Table 2 - Data blocks for differential cross sections and polarizations.

Codes	Reaction	Number of angular distributions	Total number of data points
KLP=KSP	$K^{o}_{L}p \longrightarrow K^{o}_{S}p$	53	794
KLP=KLP	$\longrightarrow K^{o}_{L}p$	5	24
KLP=K+N	$\longrightarrow K^{+}n$	9	127
KLP=LO+	$\longrightarrow \pi^{+}\Lambda^{o}$	37	616
KLP=SO+	$\longrightarrow \pi^{+}\Sigma^{o}$	24	400
KLP=LO+	$\longrightarrow \pi^{+}\Lambda^{o}$	5	27
KLP=SO+	$\longrightarrow \pi^{+}\Sigma^{o}$	1	19
		Total	2007

References

1. W. Cameron, P. Capiluppi, E. Flaminio, G. Giacomelli, G. Kalmus, G. Mandrioli, A. Minguzzi-Ranzi, V. Moggi, W.T. Morton, K.J. Peach, A.M. Rossi, B. Saitta and P. Serra-Lugaresi ($K^0_L p$ interactions in the c.m. energy range 1.54-1.71 GeV) Nucl. Phys. B132 (1978) 189.

2. See for example: U. Casadei, G. Giacomelli, P. Lugaresi-Serra, G. Mandrioli, A.M. Rossi and F. Viaggi (A compilation of K^+N cross sections below 2 GeV/c) CERN-HERA 75-1 (1975). The reader is referred to this report for more details on the method of data compilation used in the present report.

3. F. Uchiyama and J.S. Loos, Particle data group ($K^0_L N$ interactions - A compilation) LBL-55 (1972).

4. Landolt-Börnstein, Numerical data and functional relationships in science and technology, New Series, vol. 7, Editors: K.H. Hellwege and H. Schopper (1973).

APPENDIX

Notations and formulae

In this appendix the symbols and the formulae used in the compilation are defined. Most of the data in this compilation refer to reactions with two particles in the initial and final states, respectively:

$$1 + 2 \rightarrow 3 + 4 \ ,$$

where particle 1 (incident particle) is moving and particle 2 (target particle) is stationary in the laboratory system. The kinematical variables of various particles are, if necessary, distinguished by indices which indicate the number of the particle (1 to 4). Quantities defined in the centre-of-mass system (c.m.) are denoted by an asterisk, whereas quantities in the laboratory system (lab.) are asterisk free.

i) Variables of the particles

Momentum	of particle i	$\vec{p}_i, \vec{p}_i^*$
Kinetic energy	of particle i	T_i, T_i^*
Total energy	of particle i	E_i, E_i^*
Scattering angle	of particle i	θ_i, θ_i^*
Solid angle	of particle i	Ω_i, Ω_i^*

ii) Cross-sections and polarization

σ_{tot}	total cross-section
σ_{el}	elastic cross-section
σ_{in}	inelastic cross-section
$\frac{d\sigma}{d\Omega}$	differential cross-section in lab. system
$\frac{d\sigma}{d\Omega^*}$	differential cross-section in c.m. system
$\frac{d\sigma}{dt}$	invariant differential cross-section
P	polarization parameter P

iii) Notations and kinematical relations

The momentum and the kinetic energy of the incident particle in the lab. system are defined as:

$$p_1 = \left[T_1^2 + 2m_1T_1\right]^{1/2} \qquad \text{(A1)}$$

$$T_1 = \left[p_1^2 + m_1^2\right]^{1/2} - m_1 \ . \qquad \text{(A2)}$$

The invariants s and t are defined as

total c.m. energy squared: $s = m_1^2 + m_2^2 + 2E_1 m_2$, (A3)

four-momentum transfer 1-3 squared:

$$t = m_1^2 + m_3^2 - 2E_1^* E_3^* + 2p_1^* p_3^* \cos\theta_3^* \tag{A4}$$

where

$$p_1^* = \frac{p_1 m_2}{\sqrt{s}}$$

$$p_3^* = \frac{\{[s - (m_3 + m_4)^2][s - (m_3 - m_4)^2]\}^{1/2}}{2\sqrt{s}} \tag{A6}$$

$$E_i^* = [p_i^{*2} + m_i^2]^{1/2} \ . \tag{A7}$$

The scattering angle is computed, in the c.m. and lab. system respectively, as

$$\cos\theta_3^* = \frac{(t - m_1^2 - m_3^2 + 2E_1^* E_3^*)}{2p_1^* p_3^*} \tag{A8}$$

$$\tan\theta_3 = \frac{\sin\theta_3^*}{\frac{1}{\left[1 - \left(\frac{p_1}{E_1 + m_2}\right)^2\right]^{1/2}} \left(\frac{p_1 E_3^*}{(E_1 + m_2)p_3^*} + \cos\theta_3^*\right)} \ . \tag{A9}$$

The invariant differential cross-section

$$\frac{d\sigma}{dt} = \frac{\pi}{p_1^* p_3^*} \frac{d\sigma}{d\Omega^*} \ . \tag{A10}$$

In the tables and figures the following notations have been used:

PLAB = p_1
TLAB = T_1
ECM = $\sqrt{s}$
PCM = p_1^*
THLAB = θ_3 (degrees)
COSTH* = $\cos\theta_3^*$
T = t

INSTITUTIONS

AACH	PHYS. INSTITUT DER TECHN. HOCHSCHULE	AACHEN, GERMANY
ANL	ARGONNE NATIONAL LAB.	ARGONNE,IL, USA
BIRM	BIRMINGHAM UNIV.	BIRMINGHAM, ENGLAND
BNL	BROOKHAVEN NATIONAL LAB.	UPTON, NY, USA
BO	UNIV. OF BOLOGNA	BOLOGNA, ITALY
CARN	CARNEGIE-MELLON UNIV.	PITTSBURGH, PA, USA
CAVE	CAVENDISH LAB. CAMBRIDGE UNIV.	CAMBRIDGE, ENGLAND
CDEF	COLLEGE DE FRANCE	PARIS, FRANCE
CERN	EUROPEAN ORG. FOR NUCLEAR RESEARCH	GENEVA, SWITZERLAND
CHI	UNIV. OF CHICAGO	CHICAGO, IL, USA
COLO	UNIV. OF COLORADO	BOULDER, CO, USA
EDIN	UNIV. OF EDINBURGH	EDINBURGH, SCOTLAND
DAR	DARESBURY LABORATORY	DARESBURY, WARRINGTON, ENGLAND
FNAL	FERMI NATIONAL ACCELERATOR LAB.	BATAVIA, IL, USA
GLAS	UNIV. OF GLASGOW	GLASGOW, SCOTLAND
HEID	UNIV. OF HEIDELBERG	HEIDELBERG, GERMANY
IC	IMPERIAL COLLEGE	LONDON, ENGLAND
JHU	JOHNS HOPKINS UNIV.	BALTIMORE, MD, USA
LBL	LAWRENCE RADIATION LAB. AT BERKELEY	BERKELEY, CA, USA
LPNHE	UNIV. PIERRE ET MARIE CURIE	PARIS, FRANCE
MANCH	MANCHESTER UNIV.	MANCHESTER, ENGLAND
MIT	MASSACHUSETTES INST. OF TECHNOLOGY	CAMBRIDGE, MA, USA
PADO	UNIV. OF PADOVA	PADOVA, ITALY
PISA	UNIV. OF PISA	PISA, ITALY
PPA	PRINCETON/PENNSYLVANIA ACCEL.	PRINCETON,NJ, USA
RHEL	RUTHERFORD HIGH ENERGY LAB.	CHILTON, DID., BERKS., ENGLAND
SFIT	SWISS FED. INST. OF TECHNOLOGY	VILLIGEN, SWITZERLAND
SLAC	STANFORD LINEAR ACCEL. CENTER	STANFORD, CA, USA
SERP	INSTITUTE OF HIGH ENERGY PHYS.	SERPUKOV, URSS
TELA	UNIV. OF TEL-AVIV	TEL-AVIV, ISRAEL
TORI	UNIV. OF TORINO	TORINO,ITALY
UCL	UNIVERSITY COLLEGE	LONDON, ENGLAND
UCI	UNIV. OF CALIF. AT IRVINE	IRVINE, CA, USA
UCLA	UNIV. OF CALIF. AT LOS ANGELES	LOS ANGELES, CA, USA
UCSD	UNIV. OF CALIF. AT SAN DIEGO	LA JOLLA, CA, USA
UMD	UNIV. OF MARYLAND	COLLEGE PARK, MD., USA
WISC	UNIV. OF WISCONSIN	MADISON, WI, USA
YALE	YALE UNIV.	NEW HAVEN, CT, USA

MEASUREMENT TECHNIQUES

C	COUNTERS, ELECTRONICS
DBC	DEUTERIUM BUBBLE CHAMBER
HBC	HYDROGEN BUBBLE CHAMBER
SC	SPARK CHAMBERS

JOURNALS

NC	NUOVO CIMENTO
NP	NUCLEAR PHYSICS
PL	PHYSICS LETTERS
PR	PHYSICAL REVIEW
PRL	PHYSICAL REVIEW LETTERS
SJNP	SOVIET JOURNAL OF NUCL. PHYS.

TOTAL, INTEGRATED AND FORWARD CROSS SECTIONS

KL P TOTAL CROSS SECTIONS

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	SIGMA (MB)	ERROR (MB)	SYS ER (0/0)	TEC	REF
.177	1.456	.114	50.100	9.700	4.0	C	68S1
.188	1.454	.108	70.100	15.000	4.0	C	68S1
.187	1.458	.120	50.200	9.200	4.0	C	68S1
.197	1.460	.127	51.500	7.800	4.0	C	68S1
.209	1.463	.134	41.900	6.100	4.0	C	68S1
.223	1.467	.143	48.600	6.200	4.0	C	68S1
.239	1.471	.152	46.400	5.500	4.0	C	68S1
.258	1.476	.164	33.700	4.600	4.0	C	68S1
.281	1.483	.178	31.000	3.900	4.0	C	68S1
.308	1.492	.194	30.400	3.500	4.0	C	68S1
.343	1.504	.214	26.000	2.900	4.0	C	68S1

THE NUMBER OF DATA POINTS IS 11

KL P=K+ N TOTAL CROSS SECTIONS

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	SIGMA (MB)	ERROR (MB)	SYS ER (0/0)	TEC	REF
.385	1.519	.238	1.610	.720	0.0	HBC	71M1

THE NUMBER OF DATA POINTS IS 1

KL P=>S P TOTAL CROSS SECTIONS

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	SIGMA (MB)	ERROR (MB)	SYS ER (0/0)	TEC	REF
.225	1.467	.144	7.500	2.400	15.0	HBC	61L1
.360	1.510	.224	3.400	.700	15.0	HBC	61L1
.385	1.519	.238	5.040	1.300	15.0	HBC	71M1
.399	1.525	.246	3.190	.630	15.0	HBC	75A1
.462	1.550	.280	3.900	.240	5.0	HBC	78C1
.470	1.553	.284	4.290	.350	15.0	HBC	76E1
.493	1.565	.299	3.940	.220	5.0	HBC	78C1
.500	1.566	.300	2.800	.500	15.0	HBC	61L1
.500	1.566	.300	3.590	.330	15.0	HBC	76E1
.515	1.572	.307	3.260	.270	15.0	HBC	76E1
.521	1.575	.310	2.550	.370	15.0	HBC	75A1
.521	1.575	.310	3.360	.190	5.0	HBC	78C1
.525	1.577	.312	3.430	.240	15.0	HBC	76E1
.535	1.581	.318	3.050	.220	15.0	HBC	76E1
.544	1.585	.322	3.270	.170	5.0	HBC	78C1
.545	1.585	.323	2.980	.200	15.0	HBC	76E1
.550	1.587	.325	3.060	.340	10.0	HBC	78E1
.555	1.590	.328	2.460	.170	15.0	HBC	76E1
.565	1.594	.333	2.510	.170	15.0	HBC	76E1
.567	1.595	.334	2.880	.160	5.0	HBC	78C1
.575	1.598	.338	3.140	.220	15.0	HBC	76E1
.585	1.603	.342	3.410	.230	15.0	HBC	76E1
.590	1.605	.345	2.860	.170	5.0	HBC	78C1
.590	1.605	.345	1.080	.260	15.0	HBC	67H1
.595	1.607	.347	3.580	.290	15.0	HBC	76E1
.606	1.612	.353	2.230	.390	15.0	HBC	75A1
.623	1.620	.361	2.600	.130	5.0	HBC	78C1
.645	1.630	.371	2.280	.300	5.0	HBC	79C2
.656	1.635	.376	2.550	.140	5.0	HBC	78C1
.661	1.637	.379	1.890	.330	15.0	HBC	75A1
.678	1.645	.387	2.620	.150	5.0	HBC	78C1
.689	1.650	.392	2.465	.564	15.0	HBC	74B1
.699	1.655	.396	2.580	.160	5.0	HBC	78C1
.716	1.663	.404	2.470	.370	15.0	HBC	75A1
.737	1.672	.413	2.970	.120	5.0	HBC	78C1
.737	1.672	.413	2.550	.300	5.0	HBC	79C2
.769	1.687	.428	2.760	.350	15.0	HBC	75A1
.791	1.698	.437	3.530	.150	5.0	HBC	78C1
.812	1.707	.446	3.980	.360	5.0	HBC	79C2
.823	1.713	.451	3.160	.350	15.0	HBC	75A1
.876	1.737	.473	4.270	.380	15.0	HBC	75A1
.887	1.743	.478	4.990	.420	5.0	HBC	79C2
.903	1.750	.484	3.602	.619	15.0	HBC	74B1
.929	1.762	.495	3.210	.320	15.0	HBC	75A1
.956	1.775	.505	5.080	.420	5.0	HBC	79C2
.983	1.788	.516	2.940	.290	15.0	HBC	75A1
1.000	1.796	.523	2.700	.400	25.0	HBC	63L1
1.020	1.805	.530	4.100	.350	5.0	HBC	79C2
1.036	1.812	.536	2.780	.270	15.0	HBC	75A1
1.063	1.825	.547	2.888	.419	15.0	HBC	74B1
1.084	1.835	.554	2.780	.290	5.0	HBC	79C2
1.090	1.838	.557	1.810	.210	15.0	HBC	75A1
1.144	1.863	.576	1.500	.180	15.0	HBC	75A1
1.144	1.863	.576	2.110	.250	5.0	HBC	79C2
1.145	1.863	.577	1.586	.313	15.0	HBC	74B1
1.198	1.887	.596	.560	.110	15.0	HBC	75A1
1.199	1.888	.596	.002	.000	15.0	HBC	74B1
1.209	1.892	.599	1.980	.200	5.0	HBC	79C2
1.253	1.913	.615	.840	.140	15.0	HBC	75A1
1.254	1.913	.615	1.171	.230	15.0	HBC	74B1
1.304	1.936	.632	1.009	.212	15.0	HBC	74B1
1.308	1.938	.633	.560	.120	15.0	HBC	75A1
1.363	1.962	.652	.420	.100	15.0	HBC	75A1

KL P=KS P TOTAL CROSS SECTIONS

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	SIGMA (MB)	ERROR (MB)	SYS ER (0/0)	TEC	REF
1.364	1.963	.652	.756	.162	15.0	HBC	74B1
1.419	1.987	.670	.530	.100	15.0	HBC	75A1
1.420	1.988	.670	.777	.177	15.0	HBC	74B1
1.450	2.001	.680	.627	.080	15.0	HBC	71B1
1.475	2.012	.688	.780	.130	15.0	HBC	75A1
1.477	2.013	.688	1.048	.180	15.0	HBC	74B1
1.532	2.037	.706	1.070	.170	15.0	HBC	75A1
1.533	2.038	.706	.990	.175	15.0	HBC	74B1
1.590	2.063	.723	.550	.110	15.0	HBC	75A1
1.591	2.063	.724	1.038	.194	15.0	HBC	74B1
1.649	2.088	.741	.775	.142	15.0	HBC	74B1
1.700	2.110	.756	.722	.085	15.0	HBC	71B1
1.706	2.113	.758	.680	.070	15.0	HBC	75A1
1.707	2.113	.758	.966	.145	15.0	HBC	74B1
1.766	2.138	.775	.605	.107	15.0	HBC	74B1
1.825	2.163	.792	.478	.096	15.0	HBC	74B1
1.884	2.187	.808	.260	.050	15.0	HBC	75A1
1.885	2.188	.808	.548	.106	15.0	HBC	74B1
1.900	2.194	.813	.411	.060	15.0	HBC	71B1
1.946	2.213	.825	.559	.097	15.0	HBC	74B1
2.007	2.238	.841	.364	.065	15.0	HBC	74B1
2.068	2.263	.858	.360	.060	15.0	HBC	75A1
2.100	2.276	.866	.420	.055	15.0	HBC	71B1
2.100	2.276	.866	.491	.044	15.0	HBC	74B1
2.300	2.355	.917	.277	.045	15.0	HBC	71B1
2.300	2.355	.917	.329	.032	15.0	HBC	74B1
2.500	2.431	.965	.287	.045	15.0	HBC	71B1
2.500	2.431	.965	.290	.028	15.0	HBC	74B1
2.700	2.506	1.011	.250	.040	15.0	HBC	71B1
2.700	2.506	1.011	.241	.025	15.0	HBC	74B1
2.900	2.579	1.055	.171	.035	15.0	HBC	71B1
2.900	2.579	1.055	.210	.024	15.0	HBC	74B1
3.100	2.649	1.098	.205	.020	15.0	HBC	74B1
3.200	2.684	1.119	.146	.022	15.0	HBC	71B1
3.300	2.719	1.139	.133	.018	15.0	HBC	74B1
3.500	2.786	1.179	.120	.017	15.0	HBC	74B1
3.600	2.819	1.198	.086	.018	15.0	HBC	71B1
3.700	2.852	1.217	.141	.017	15.0	HBC	74B1
3.900	2.916	1.255	.123	.017	15.0	HBC	74B1
4.000	2.948	1.273	.115	.021	15.0	HBC	71B1
4.200	3.011	1.309	.101	.011	15.0	HBC	74B1
4.600	3.132	1.378	.077	.014	15.0	HBC	71B1
4.600	3.132	1.378	.091	.010	15.0	HBC	74B1
5.000	3.249	1.444	.073	.010	15.0	HBC	74B1
5.500	3.390	1.522	.054	.012	15.0	HBC	71B1
5.600	3.417	1.538	.049	.006	15.0	HBC	74B1
6.500	3.655	1.668	.047	.006	15.0	HBC	74B1
7.000	3.781	1.737	.028	.008	15.0	HBC	71B1
7.500	3.903	1.803	.023	.005	15.0	HBC	74B1
9.000	4.248	1.988	.025	.005	15.0	HBC	74B1
11.000	4.668	2.211	.015	.008	15.0	HBC	74B1

THE NUMBER OF DATA POINTS IS 114

KL P=LO PI+ TOTAL CROSS SECTIONS

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	SIGMA (MB)	ERROR (MB)	SYS ER (0/0)	TEC	REF
.360	1.510	.224	1.500	.500	15.0	HBC	61L1
.225	1.467	.144	3.800	1.600	15.0	HBC	61L1
.385	1.519	.238	5.400	1.210	15.0	HBC	71M1
.462	1.550	.280	1.680	.200	15.0	HBC	75B1
.470	1.553	.284	3.120	.330	15.0	HBC	76E1
.493	1.563	.296	2.720	.290	5.0	HBC	78C1
.500	1.566	.300	2.100	.500	15.0	HBC	61L1
.500	1.566	.300	2.580	.220	15.0	HBC	76E1
.515	1.572	.307	2.650	.250	15.0	HBC	76E1
.525	1.577	.312	2.490	.220	15.0	HBC	76E1
.535	1.581	.318	2.610	.190	15.0	HBC	76E1
.543	1.584	.322	2.600	.280	5.0	HBC	78C1
.545	1.585	.323	2.310	.180	15.0	HBC	76E1
.550	1.587	.325	2.470	.270	10.0	HBC	78E1
.555	1.590	.328	2.660	.180	15.0	HBC	76E1
.565	1.594	.333	2.710	.180	15.0	HBC	76E1
.575	1.598	.338	3.030	.200	15.0	HBC	76E1
.575	1.598	.338	2.410	.270	5.0	HBC	78C1
.585	1.603	.342	2.840	.220	15.0	HBC	76E1
.590	1.605	.345	1.020	.230	15.0	HBC	67H1
.595	1.607	.347	2.590	.250	15.0	HBC	76E1
.634	1.625	.366	1.750	.220	15.0	HBC	75B1
.689	1.650	.392	2.110	.320	15.0	HBC	74Y1
.743	1.675	.416	2.780	.265	15.0	HBC	75B1
.849	1.725	.462	2.775	.215	15.0	HBC	75B1
.903	1.750	.484	2.420	.250	15.0	HBC	74Y1
.956	1.775	.505	2.995	.210	15.0	HBC	75B1
1.063	1.825	.547	1.790	.230	15.0	HBC	74Y1
1.063	1.825	.547	1.685	.160	15.0	HBC	75B1
1.145	1.863	.577	1.920	.280	15.0	HBC	74Y1
1.171	1.875	.586	1.560	.145	15.0	HBC	75B1
1.199	1.888	.596	1.220	.230	15.0	HBC	74Y1
1.254	1.913	.615	1.490	.230	15.0	HBC	74Y1
1.280	1.925	.624	1.280	.130	15.0	HBC	75B1
1.304	1.936	.632	1.220	.200	15.0	HBC	74Y1
1.364	1.963	.652	1.390	.200	15.0	HBC	74Y1
1.391	1.975	.661	.840	.100	15.0	HBC	75B1
1.420	1.988	.670	1.110	.170	15.0	HBC	74Y1
1.477	2.013	.688	1.140	.160	15.0	HBC	74Y1
1.504	2.025	.697	1.295	.130	15.0	HBC	75B1
1.533	2.038	.706	1.250	.170	15.0	HBC	74Y1
1.591	2.063	.724	1.140	.160	15.0	HBC	74Y1
1.618	2.075	.732	1.085	.120	15.0	HBC	75B1
1.649	2.088	.741	.980	.130	15.0	HBC	74Y1
1.707	2.113	.758	1.020	.130	15.0	HBC	74Y1
1.735	2.125	.766	.725	.095	15.0	HBC	75B1
1.766	2.138	.775	.690	.120	15.0	HBC	74Y1
1.825	2.163	.792	.670	.110	15.0	HBC	74Y1
1.854	2.175	.800	.535	.090	15.0	HBC	75B1
1.885	2.188	.808	.670	.100	15.0	HBC	74Y1
1.946	2.213	.825	.647	.100	15.0	HBC	74Y1
1.975	2.225	.833	.540	.095	15.0	HBC	75B1
2.007	2.238	.841	.492	.075	15.0	HBC	74Y1
2.069	2.263	.858	.560	.086	15.0	HBC	74Y1
2.099	2.275	.866	.430	.100	15.0	HBC	75B1
2.131	2.288	.874	.434	.067	15.0	HBC	74Y1
2.194	2.313	.890	.376	.061	15.0	HBC	74Y1
2.250	2.335	.904	.403	.061	15.0	HBC	74Y1
2.353	2.375	.930	.386	.042	15.0	HBC	74Y1
2.483	2.425	.961	.395	.040	15.0	HBC	74Y1
2.549	2.450	.976	.220	.035	15.0	HBC	75B1
2.610	2.475	.992	.261	.032	15.0	HBC	74Y1
2.820	2.550	1.038	.261	.022	15.0	HBC	74Y1
3.101	2.650	1.098	.167	.016	15.0	HBC	74Y1
3.393	2.750	1.158	.128	.013	15.0	HBC	74Y1
3.694	2.850	1.216	.235	.024	15.0	HBC	74Y1
4.006	2.950	1.274	.221	.023	15.0	HBC	74Y1
4.493	3.100	1.360	.137	.013	15.0	HBC	74Y1
5.178	3.300	1.472	.113	.011	15.0	HBC	74Y1
5.906	3.500	1.583	.049	.006	15.0	HBC	74Y1
6.500	3.659	1.668	.034	.004	15.0	HBC	74Y1
7.500	3.903	1.803	.024	.004	15.0	HBC	74Y1
9.000	4.248	1.988	.015	.003	15.0	HBC	74Y1
11.000	4.668	2.211	.013	.005	15.0	HBC	74Y1

THE NUMBER OF DATA POINTS IS 74

KL P=SU PI+ TOTAL CROSS SECTIONS

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	SIGMA (MB)	ERROR (MB)	SYS ER (0/0)	TEC	REF
.225	1.467	.144	3.600	1.500	15.0	HBC	61L1
.360	1.510	.224	3.000	.800	15.0	HBC	61L1
.385	1.519	.238	3.500	.940	15.0	HBC	71M1
.399	1.525	.246	1.720	.350	15.0	HBC	75B1
.462	1.550	.280	2.040	.140	5.0	HBC	78C1
.480	1.557	.289	2.650	.170	15.0	HBC	76E1
.498	1.565	.299	2.270	.140	5.0	HBC	78C1
.500	1.566	.300	2.100	.500	15.0	HBC	61L1
.520	1.574	.310	1.970	.140	15.0	HBC	76E1
.521	1.575	.310	1.785	.280	15.0	HBC	75B1
.521	1.575	.310	1.860	.120	5.0	HBC	78C1
.535	1.581	.318	1.930	.160	15.0	HBC	76E1
.544	1.585	.322	1.950	.110	5.0	HBC	78C1
.545	1.585	.323	1.830	.140	15.0	HBC	76E1
.550	1.587	.325	1.880	.210	10.0	HBC	78E1
.555	1.590	.328	1.860	.140	15.0	HBC	76E1
.565	1.594	.333	1.700	.150	15.0	HBC	76E1
.567	1.595	.334	1.510	.100	5.0	HBC	78C1
.575	1.598	.338	1.620	.140	15.0	HBC	76E1
.585	1.603	.342	1.830	.170	15.0	HBC	76E1
.590	1.605	.345	.330	.130	15.0	HBC	67H1
.590	1.605	.345	1.650	.110	5.0	HBC	78C1
.595	1.607	.347	2.040	.220	15.0	HBC	76E1
.623	1.620	.361	1.340	.080	5.0	HBC	78C1
.634	1.625	.366	1.145	.175	15.0	HBC	75B1
.656	1.635	.376	1.280	.080	5.0	HBC	78C1
.678	1.645	.387	1.290	.090	5.0	HBC	78C1
.689	1.650	.392	1.060	.230	15.0	HBC	74Y1
.699	1.655	.396	1.280	.090	5.0	HBC	78C1
.737	1.672	.413	1.480	.070	5.0	HBC	78C1
.743	1.675	.416	1.670	.190	15.0	HBC	75B1
.791	1.698	.437	1.340	.070	5.0	HBC	78C1
.849	1.725	.462	.725	.105	15.0	HBC	75B1
.903	1.750	.484	.900	.140	15.0	HBC	74Y1
.956	1.775	.505	.640	.095	15.0	HBC	75B1
1.063	1.825	.547	.610	.130	15.0	HBC	74Y1
1.063	1.825	.547	.545	.085	15.0	HBC	75B1
1.145	1.863	.577	.590	.160	15.0	HBC	74Y1
1.171	1.875	.586	.410	.075	15.0	HBC	75B1
1.199	1.888	.596	.340	.120	15.0	HBC	74Y1
1.254	1.913	.615	.550	.150	15.0	HBC	74Y1
1.280	1.925	.624	.430	.075	15.0	HBC	75B1
1.304	1.936	.632	.302	.096	15.0	HBC	74Y1
1.364	1.963	.652	.410	.120	15.0	HBC	74Y1
1.420	1.988	.670	.223	.081	15.0	HBC	74Y1
1.447	2.000	.679	.195	.030	15.0	HBC	75B1
1.477	2.013	.688	.245	.078	15.0	HBC	74Y1
1.533	2.038	.706	.357	.091	15.0	HBC	74Y1
1.591	2.063	.724	.385	.089	15.0	HBC	74Y1
1.649	2.088	.741	.310	.078	15.0	HBC	74Y1
1.676	2.100	.749	.260	.040	15.0	HBC	75B1
1.707	2.113	.758	.426	.091	15.0	HBC	74Y1
1.766	2.138	.775	.326	.074	15.0	HBC	74Y1
1.825	2.163	.792	.283	.074	15.0	HBC	74Y1
1.885	2.188	.808	.168	.051	15.0	HBC	74Y1
1.914	2.200	.816	.200	.035	15.0	HBC	75B1
1.946	2.213	.825	.281	.062	15.0	HBC	74Y1
2.007	2.238	.841	.187	.052	15.0	HBC	74Y1
2.069	2.263	.858	.212	.049	15.0	HBC	74Y1
2.131	2.288	.874	.145	.041	15.0	HBC	74Y1
2.194	2.313	.890	.151	.039	15.0	HBC	74Y1
2.224	2.325	.898	.115	.025	15.0	HBC	75B1
2.258	2.338	.906	.171	.042	15.0	HBC	74Y1
2.353	2.375	.930	.125	.024	15.0	HBC	74Y1
2.483	2.425	.961	.126	.024	15.0	HBC	74Y1
2.616	2.475	.992	.124	.025	15.0	HBC	74Y1
2.820	2.550	1.038	.125	.016	15.0	HBC	74Y1
3.101	2.650	1.098	.085	.012	15.0	HBC	74Y1
3.393	2.750	1.158	.068	.010	15.0	HBC	74Y1
3.694	2.850	1.216	.065	.010	15.0	HBC	74Y1
4.006	2.950	1.274	.067	.009	15.0	HBC	74Y1
4.493	3.100	1.360	.044	.005	15.0	HBC	74Y1
5.178	3.300	1.472	.039	.005	15.0	HBC	74Y1
5.905	3.500	1.583	.026	.004	15.0	HBC	74Y1
6.500	3.655	1.668	.025	.003	15.0	HBC	74Y1
7.500	3.903	1.803	.021	.003	15.0	HBC	74Y1
9.000	4.248	1.988	.015	.003	15.0	HBC	74Y1
11.000	4.668	2.211	.007	.003	15.0	HBC	74Y1

THE NUMBER OF DATA POINTS IS 78

KL P=S+ PI0 TOTAL CROSS SECTIONS

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	SIGMA (MB)	ERROR (MB)	SYS ER (0/0)	TEC	REF
.385	1.519	.238	1.940	.800	15.0	HBC	71M1

THE NUMBER OF DATA POINTS IS 1

KL P=L0 PI+ PI0 TOTAL CROSS SECTIONS

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	SIGMA (MB)	ERROR (MB)	SYS ER (0/0)	TEC	REF
.385	1.519	.238	1.200	.700	15.0	HBC	71M1
.462	1.550	.280	.240	.030	5.0	HBC	78C1
.498	1.565	.299	.460	.050	5.0	HBC	78C1
.521	1.575	.310	.410	.040	5.0	HBC	78C1
.544	1.585	.322	.510	.040	5.0	HBC	78C1
.550	1.587	.325	.400	.050	10.0	HBC	78E1
.567	1.595	.334	.460	.040	5.0	HBC	78C1
.590	1.605	.345	.070	.030	15.0	HBC	67H1
.590	1.605	.345	.610	.050	5.0	HBC	78C1
.623	1.620	.361	.700	.050	5.0	HBC	78C1
.656	1.635	.376	.810	.060	5.0	HBC	78C1
.678	1.645	.387	.930	.070	5.0	HBC	78C1
.699	1.655	.396	1.130	.080	5.0	HBC	78C1
.737	1.672	.413	1.490	.070	5.0	HBC	78C1
.791	1.698	.437	2.080	.100	5.0	HBC	78C1

THE NUMBER OF DATA POINTS IS 15

KL P=S- PI+ PI+ TOTAL CROSS SECTIONS

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	SIGMA (MB)	ERROR (MB)	SYS ER (0/0)	TEC	REF
.590	1.605	.345	.030	.020	15.0	HBC	67H1

THE NUMBER OF DATA POINTS IS 1

KL P=K+ P PI- TOTAL CROSS SECTIONS

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	SIGMA (MB)	ERROR (MB)	SYS ER (0/0)	TEC	REF
.700	1.655	.397	.075	.030	15.0	HBC	73A1
.900	1.749	.483	.175	.035	15.0	HBC	73A1
1.100	1.842	.560	.415	.055	15.0	HBC	73A1
1.300	1.934	.631	.620	.065	15.0	HBC	73A1
1.500	2.023	.696	.730	.070	15.0	HBC	73A1
1.700	2.110	.756	.845	.080	15.0	HBC	73A1
1.900	2.194	.813	1.000	.095	15.0	HBC	73A1
2.100	2.276	.866	.830	.090	15.0	HBC	73A1
2.300	2.355	.917	.770	.100	15.0	HBC	73A1
2.500	2.431	.965	.675	.105	15.0	HBC	73A1

THE NUMBER OF DATA POINTS IS 10

KL P=K- P PI+ TOTAL CROSS SECTIONS

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	SIGMA (MB)	ERROR (MB)	SYS ER (0/0)	TEC	REF
.700	1.655	.397	.110	.040	15.0	HBC	73A1
.900	1.749	.483	.750	.080	15.0	HBC	73A1
1.100	1.842	.560	1.050	.095	15.0	HBC	73A1
1.300	1.934	.631	1.370	.105	15.0	HBC	73A1
1.500	2.023	.696	1.560	.120	15.0	HBC	73A1
1.700	2.110	.756	1.640	.125	15.0	HBC	73A1
1.900	2.194	.813	1.265	.110	15.0	HBC	73A1
2.100	2.276	.866	1.365	.125	15.0	HBC	73A1
2.300	2.355	.917	1.255	.130	15.0	HBC	73A1
2.500	2.431	.965	.820	.120	15.0	HBC	73A1

THE NUMBER OF DATA POINTS IS 10

KL P=KS PI+ PI- PI+ TOTAL CROSS SECTIONS

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	SIGMA (MB)	ERROR (MB)	SYS ER (0/0)	TEC	REF
1.500	2.023	.696	.140	.030	10.0	HBC	80B1
2.500	2.431	.965	.400	.038	10.0	HBC	80B1
3.500	2.786	1.179	.655	.050	10.0	HBC	80B1
4.500	3.102	1.361	.585	.047	10.0	HBC	80B1
5.500	3.390	1.522	.520	.047	10.0	HBC	80B1
6.500	3.655	1.668	.440	.040	10.0	HBC	80B1
7.500	3.903	1.803	.415	.040	10.0	HBC	80B1
8.500	4.136	1.928	.290	.037	10.0	HBC	80B1
9.500	4.357	2.046	.330	.040	10.0	HBC	80B1
10.500	4.567	2.157	.265	.040	10.0	HBC	80B1
11.500	4.767	2.263	.230	.084	10.0	HBC	80B1
12.500	4.960	2.364	.250	.047	10.0	HBC	80B1
13.500	5.146	2.462	.230	.044	10.0	HBC	80B1
14.500	5.325	2.555	.190	.035	10.0	HBC	80B1
15.500	5.498	2.645	.185	.030	10.0	HBC	80B1
16.500	5.666	2.732	.285	.050	10.0	HBC	80B1

THE NUMBER OF DATA POINTS IS 16

KL P=KS P PHASE OF FORWARD SCATTERING AMPLITUDE

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	Φ	ERROR (deg)	SYS ER (0/0)	TEC	REF
.514	1.572	.307	-164.00	5.00	10.0	HBC	78E1
.537	1.582	.319	-160.00	5.00	10.0	HBC	78E1
.563	1.593	.332	-155.00	5.00	10.0	HBC	78E1
.586	1.603	.343	-159.00	5.00	10.0	HBC	78E1
.636	1.626	.367	-149.80	4.00	15.0	HBC	75A1
.645	1.630	.371	-172.00	3.00	5.0	HBC	79C2
.737	1.672	.413	-147.00	14.00	5.0	HBC	79C2
.812	1.707	.446	-156.00	7.00	5.0	HBC	79C2
.887	1.743	.478	-137.00	7.00	5.0	HBC	79C2
.898	1.748	.482	-134.80	4.20	15.0	HBC	75A1
.956	1.775	.505	-107.00	9.00	5.0	HBC	79C2
1.020	1.805	.530	-114.00	12.00	5.0	HBC	79C2
1.084	1.835	.554	-109.00	23.00	5.0	HBC	79C2
1.121	1.852	.568	-115.90	18.30	15.0	HBC	75A1
1.144	1.863	.576	-162.00	10.00	5.0	HBC	79C2
1.209	1.892	.599	-176.00	2.00	5.0	HBC	79C2
1.497	2.022	.695	-142.80	8.40	15.0	HBC	75A1
1.650	2.089	.741	-132.00	14.00	15.0	HBC	71B1
1.866	2.180	.803	-107.90	59.00	15.0	HBC	7 A1
2.000	2.235	.840	-137.00	6.90	15.0	HBC	74B1
2.650	2.488	1.000	-129.00	13.00	15.0	HBC	71B1
3.000	2.614	1.077	-122.00	11.00	15.0	HBC	74B1
4.250	3.026	1.318	-138.40	7.10	5.0	HBC	74B1
4.500	3.102	1.361	-132.00	17.00	15.0	SC	70D1
6.000	3.525	1.597	-123.00	18.00	15.0	HBC	71B1
6.250	3.591	1.633	-130.40	9.30	15.0	HBC	74B1
6.250	3.591	1.633	-121.00	14.00	10.0	HBC	79M1
6.500	3.655	1.668	-101.00	42.00	15.0	SC	71B2
8.000	4.021	1.867	-152.00	19.00	15.0	HBC	71B1
8.250	4.079	1.898	-143.00	7.60	10.0	HBC	79M1
8.750	4.192	1.958	-115.60	36.00	15.0	HBC	74B1
16.000	5.583	2.689	-139.00	20.00	15.0	SC	76B3
20.000	6.219	3.018	-132.00	13.00	15.0	SC	76B3
24.000	6.795	3.314	-127.00	11.00	15.0	SC	76B3
28.000	7.327	3.586	-139.00	12.00	15.0	SC	76B3
32.000	7.822	3.838	-130.00	12.00	15.0	SC	76B3
35.000	8.174	4.018	-119.00	9.00	10.0	C	79B1
36.000	8.288	4.076	-127.00	16.00	15.0	SC	76B3
40.000	8.729	4.300	-142.00	29.00	15.0	SC	76B3
45.000	9.251	4.564	-111.00	5.00	10.0	C	79B1
46.000	9.352	4.615	-109.00	34.00	15.0	SC	76B3
55.000	10.215	5.052	-120.00	4.00	10.0	C	79B1
65.000	11.095	5.497	-116.00	3.00	10.0	C	79B1
75.000	11.911	5.908	-112.00	4.00	10.0	C	79B1
85.000	12.674	6.292	-112.00	5.00	10.0	C	79B1
95.000	13.394	6.655	-95.00	6.00	10.0	C	79B1
105.000	14.077	6.998	-106.00	9.00	10.0	C	79B1
115.000	14.729	7.326	-91.00	12.00	10.0	C	79B1
125.000	15.352	7.639	-96.00	14.00	10.0	C	79B1

THE NUMBER OF DATA POINTS IS 49

KL P=KS P DIFFERENTIAL CROSS SECTION AT T=0

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	SIGMA (MB)	ERROR (MB)	SYS ER (0/0)	TEC	REF
.514	1.572	.307	6.100	2.000	10.0	HBC	78E1
.537	1.582	.319	5.300	1.700	10.0	HBC	78E1
.563	1.593	.332	4.500	1.400	10.0	HBC	78E1
.586	1.603	.343	5.700	1.500	10.0	HBC	78E1
.636	1.626	.367	5.500	.700	15.0	HBC	75A1
.645	1.630	.371	8.510	2.680	5.0	HBC	79C2
.737	1.672	.413	6.870	1.870	5.0	HBC	79C2
.812	1.707	.446	11.430	1.710	5.0	HBC	79C2
.887	1.743	.478	13.850	1.700	5.0	HBC	79C2
.898	1.748	.482	13.840	1.470	15.0	HBC	75A1
.956	1.775	.505	10.150	1.340	5.0	HBC	79C2
1.000	1.796	.523	7.600	1.900	25.0	HBC	63L1
1.020	1.805	.530	5.740	.760	5.0	HBC	79C2
1.084	1.835	.554	1.950	.680	5.0	HBC	79C2
1.121	1.852	.568	2.110	.620	15.0	HBC	75A1
1.144	1.863	.576	1.670	.640	5.0	HBC	79C2
1.209	1.892	.599	1.820	.500	5.0	HBC	79C2
1.497	2.022	.695	2.560	.990	15.0	HBC	75A1
1.500	2.023	.696	1.400	.500	15.0	HBC	71B1
1.866	2.180	.803	.750	.500	15.0	HBC	75A1
2.000	2.235	.840	1.425	.282	15.0	HBC	74D1
2.500	2.431	.965	.880	.240	15.0	HBC	71B1
2.500	2.431	.965	1.420	.540	15.0	SC	70D1
3.000	2.614	1.077	.646	.134	15.0	HBC	74B1
3.500	2.786	1.179	.620	.160	15.0	HBC	71B1
3.500	2.786	1.179	.630	.250	15.0	SC	70D1
4.250	3.026	1.318	.665	.138	15.0	HBC	74B1
4.500	3.102	1.361	.470	.130	15.0	HBC	71B1
4.500	3.102	1.361	.630	.320	15.0	SC	70D1
5.000	3.249	1.444	.120	.040	15.0	HBC	66F1
5.000	3.249	1.444	.046	.010	15.0	HBC	66F1
5.500	3.390	1.522	.370	.110	15.0	HBC	71B1
6.000	3.525	1.597	1.230	.820	15.0	SC	70D1
6.250	3.591	1.633	.305	.078	15.0	HBC	74B1
6.250	3.591	1.633	.242	.065	10.0	HBC	79M1
6.500	3.655	1.668	.380	.190	15.0	SC	71B2
7.000	3.781	1.737	.280	.100	15.0	HBC	71B1
8.000	4.021	1.867	.052	.011	15.0	SC	76B3
8.250	4.079	1.898	.310	.103	10.0	HBC	79M1
8.750	4.192	1.958	.138	.082	15.0	HBC	74B1
16.000	5.583	2.689	.097	.043	15.0	SC	76B3
20.000	6.219	3.018	.060	.012	15.0	SC	76B3
24.000	6.795	3.314	.066	.011	15.0	SC	76B3
28.000	7.327	3.586	.052	.011	15.0	SC	76B3
32.000	7.822	3.838	.053	.009	15.0	SC	76B3
35.000	8.174	4.018	.049	.010	10.0	C	79B1
36.000	8.288	4.076	.041	.008	15.0	SC	76B3
40.000	8.729	4.300	.024	.010	15.0	SC	76B3
45.000	9.251	4.564	.027	.003	10.0	C	79B1
46.000	9.352	4.615	.027	.009	15.0	SC	76B3
55.000	10.215	5.052	.022	.001	10.0	C	79B1
65.000	11.095	5.497	.017	.001	10.0	C	79B1
75.000	11.911	5.908	.013	.001	10.0	C	79B1
85.000	12.674	6.292	.013	.001	10.0	C	79B1
95.000	13.394	6.655	.010	.001	10.0	C	79B1
105.000	14.077	6.998	.009	.001	10.0	C	79B1
115.000	14.729	7.326	.008	.001	10.0	C	79B1
125.000	15.352	7.639	.008	.002	10.0	C	79B1

THE NUMBER OF DATA POINTS IS 58

KL P=L0 PI+ DIFFERENTIAL CROSS SECTION AT T=0

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	SIGMA (MB)	ERROR (MB)	SYS ER (0/0)	TEC	REF
2.000	2.235	.840	2.235	.344	15.0	HBC	74Y1
3.000	2.614	1.077	.868	.115	15.0	HBC	74Y1
4.250	3.026	1.318	.465	.062	15.0	HBC	74Y1
6.500	3.655	1.668	.303	.052	15.0	HBC	74Y1
10.000	4.463	2.102	.137	.048	15.0	HBC	74Y1

THE NUMBER OF DATA POINTS IS 5

KL P=S0 PI+ DIFFERENTIAL CROSS SECTION AT T=0

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	SIGMA (MB)	ERROR (MB)	SYS ER (0/0)	TEC	REF
2.000	2.235	.840	1.408	.228	15.0	HBC	74Y1
3.000	2.614	1.077	.619	.101	15.0	HBC	74Y1
4.250	3.026	1.318	.527	.077	15.0	HBC	74Y1
6.500	3.655	1.668	.423	.066	15.0	HBC	74Y1
10.000	4.463	2.102	.131	.057	15.0	HBC	74Y1

THE NUMBER OF DATA POINTS IS 5

DIFFERENTIAL CROSS SECTIONS AND POLARIZATIONS

KL P = KS P DIFFERENTIAL CROSS SECTIONS

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR
PLAB= .462 GEV/C, ECM=1.550 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
140.8	-.950	-.305	.594	.090	23.86	3.61
117.9	-.850	-.289	.623	.092	25.02	3.70
104.8	-.750	-.274	.499	.082	20.04	3.29
95.3	-.650	-.258	.494	.084	19.84	3.37
87.6	-.550	-.242	.314	.063	12.61	2.53
81.2	-.450	-.227	.445	.072	17.87	2.89
75.4	-.350	-.211	.360	.061	14.46	2.45
70.3	-.250	-.196	.348	.056	13.98	2.25
65.4	-.150	-.180	.331	.055	13.29	2.21
60.9	-.050	-.164	.286	.049	11.49	1.97
56.5	.050	-.149	.292	.048	11.73	1.93
52.3	.150	-.133	.242	.044	9.72	1.77
48.1	.250	-.117	.244	.043	9.80	1.73
43.9	.350	-.102	.216	.039	8.68	1.57
39.6	.450	-.086	.178	.036	7.15	1.45
35.2	.550	-.070	.165	.035	6.63	1.41
30.6	.650	-.055	.219	.039	8.80	1.57
25.4	.750	-.039	.150	.035	6.02	1.41
PLAB= .498 GEV/C, ECM=1.565 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
140.5	-.950	-.348	.649	.085	22.87	3.00
117.4	-.850	-.330	.613	.084	21.60	2.96
104.3	-.750	-.312	.540	.081	19.03	2.85
94.8	-.650	-.294	.466	.074	16.42	2.61
87.2	-.550	-.276	.360	.063	12.69	2.22
80.7	-.450	-.259	.397	.063	13.99	2.22
75.0	-.350	-.241	.317	.053	11.17	1.87
69.8	-.250	-.223	.294	.049	10.36	1.73
65.0	-.150	-.205	.211	.040	7.44	1.41
60.5	-.050	-.187	.310	.048	10.92	1.69
56.1	.050	-.169	.257	.043	9.06	1.52
51.9	.150	-.152	.261	.042	9.20	1.48
47.7	.250	-.134	.217	.039	7.65	1.37
43.5	.350	-.116	.198	.036	6.98	1.27
39.3	.450	-.098	.285	.043	10.04	1.52
34.9	.550	-.080	.215	.037	7.58	1.30
30.3	.650	-.062	.170	.033	5.99	1.16
25.2	.750	-.045	.171	.034	6.03	1.20
PLAB= .521 GEV/C, ECM=1.575 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
140.3	-.950	-.376	.639	.081	20.83	2.64
117.2	-.850	-.357	.437	.067	14.25	2.18
104.0	-.750	-.337	.441	.068	14.38	2.22
94.5	-.650	-.318	.427	.067	13.92	2.18
86.9	-.550	-.299	.325	.057	10.60	1.86
80.4	-.450	-.279	.412	.061	13.43	1.99
74.7	-.350	-.260	.220	.042	7.17	1.37
69.5	-.250	-.241	.148	.033	4.83	1.08
64.7	-.150	-.222	.211	.039	6.88	1.27
60.2	-.050	-.202	.266	.042	8.67	1.37
55.8	.050	-.183	.173	.033	5.64	1.08
51.6	.150	-.164	.220	.037	7.17	1.21
47.5	.250	-.145	.170	.032	5.54	1.04
43.3	.350	-.125	.197	.034	6.42	1.11
39.1	.450	-.106	.164	.031	5.35	1.01
34.7	.550	-.087	.150	.030	4.89	.98
30.1	.650	-.067	.146	.029	4.76	.95
25.1	.750	-.048	.254	.039	8.28	1.27
PLAB= .544 GEV/C, ECM=1.585 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
140.0	-.950	-.405	.527	.062	15.96	1.88
116.9	-.850	-.384	.512	.063	15.51	1.91
103.7	-.750	-.363	.453	.059	13.72	1.79
94.2	-.650	-.342	.261	.044	7.90	1.33
86.6	-.550	-.322	.409	.055	12.39	1.67
80.1	-.450	-.301	.326	.046	9.87	1.39
74.4	-.350	-.280	.240	.038	7.27	1.15
69.2	-.250	-.259	.323	.042	9.78	1.27
64.4	-.150	-.239	.215	.033	6.51	1.00
59.9	-.050	-.218	.267	.036	8.09	1.09
55.6	.050	-.197	.194	.031	5.88	.94
51.4	.150	-.176	.217	.032	6.57	.97
47.2	.250	-.156	.138	.025	4.18	.76
43.1	.350	-.135	.165	.027	5.00	.82
38.9	.450	-.114	.173	.028	5.24	.85
34.5	.550	-.093	.149	.026	4.51	.79
29.9	.650	-.073	.165	.027	5.00	.82
24.9	.750	-.052	.165	.027	5.00	.82
PLAB= .550 GEV/C, ECM=1.587 GEV, SYS ER=10.0 TEC=HBC REF=76C1						
140.0	-.950	-.412	.541	.045	16.08	1.34
116.8	-.850	-.391	.505	.045	15.01	1.34
103.6	-.750	-.370	.400	.027	11.89	.80
94.1	-.650	-.349	.363	.027	10.79	.80

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR

PLAB= .550 GEV/C, ECM=1.587 GEV, SYS ER=10.0 TEC=HBC REF=76C1

86.5	-.550	-.328	.308	.027	9.16	.80
80.0	-.450	-.306	.282	.020	8.38	.59
74.3	-.350	-.285	.305	.020	9.07	.59
69.1	-.250	-.264	.263	.020	7.82	.59
64.3	-.150	-.243	.235	.018	6.99	.54
59.8	-.050	-.222	.208	.018	6.18	.54
55.5	.050	-.201	.159	.014	4.73	.42
51.3	.150	-.180	.141	.012	4.19	.36
47.2	.250	-.159	.182	.014	5.41	.42
43.0	.350	-.137	.191	.014	5.68	.42
38.8	.450	-.116	.186	.014	5.53	.42
34.5	.550	-.095	.145	.012	4.31	.36
29.9	.650	-.074	.177	.015	5.26	.45
24.9	.750	-.053	.173	.015	5.14	.45
19.0	.850	-.032	.164	.015	4.88	.45

PLAB= .550 GEV/C, ECM=1.587 GEV, SYS ER=10.0 TEC=HBC REF=78E1

140.0	-.950	-.412	.550	.050	16.35	1.49
116.8	-.850	-.391	.520	.040	15.46	1.19
103.6	-.750	-.370	.380	.030	11.30	.89
94.1	-.650	-.349	.380	.030	11.30	.89
86.5	-.550	-.328	.310	.020	9.22	.59
80.0	-.450	-.306	.290	.020	8.62	.59
74.3	-.350	-.285	.290	.020	8.62	.59
69.1	-.250	-.264	.250	.020	7.43	.59
64.3	-.150	-.243	.230	.020	6.84	.59
59.8	-.050	-.222	.200	.020	5.95	.59
55.5	.050	-.201	.160	.020	4.76	.59
51.3	.150	-.180	.140	.020	4.16	.59
47.2	.250	-.159	.170	.020	5.05	.59
43.0	.350	-.137	.150	.020	4.46	.59
38.8	.450	-.116	.140	.020	4.16	.59
34.5	.550	-.095	.150	.020	4.46	.59
29.9	.650	-.074	.160	.020	4.76	.59
24.9	.750	-.053	.160	.020	4.76	.59
19.0	.850	-.032	.160	.020	4.76	.59

PLAB= .567 GEV/C, ECM=1.595 GEV, SYS ER= 5.0 TEC=HBC REF=78C1

139.8	-.950	-.434	.438	.057	12.37	1.61
116.6	-.850	-.412	.330	.050	9.32	1.41
103.4	-.750	-.389	.458	.060	12.93	1.69
93.9	-.650	-.367	.299	.048	8.44	1.36
86.2	-.550	-.345	.400	.055	11.29	1.55
79.8	-.450	-.323	.271	.043	7.65	1.21
74.1	-.350	-.300	.269	.041	7.60	1.16
68.9	-.250	-.278	.195	.033	5.51	.93
64.1	-.150	-.256	.174	.030	4.91	.85
59.6	-.050	-.234	.144	.028	4.07	.79
55.3	.050	-.211	.172	.029	4.86	.82
51.1	.150	-.189	.156	.027	4.40	.76
47.0	.250	-.167	.168	.029	4.74	.82
42.8	.350	-.145	.181	.029	5.11	.82
38.7	.450	-.122	.124	.024	3.50	.68
34.3	.550	-.100	.162	.027	4.57	.76
29.8	.650	-.078	.194	.030	5.48	.85
24.8	.750	-.056	.147	.026	4.15	.73
18.9	.850	-.033	.146	.033	4.12	.93

PLAB= .590 GEV/C, ECM=1.605 GEV, SYS ER= 5.0 TEC=HBC REF=78C1

139.6	-.950	-.464	.560	.071	14.79	1.88
116.3	-.850	-.440	.432	.063	11.41	1.66
103.1	-.750	-.416	.418	.062	11.04	1.64
93.6	-.650	-.393	.376	.059	9.93	1.56
85.9	-.550	-.369	.266	.048	7.03	1.27
79.5	-.450	-.345	.368	.055	9.72	1.45
73.8	-.350	-.321	.239	.041	6.31	1.08
68.6	-.250	-.297	.164	.033	4.33	.87
63.8	-.150	-.274	.149	.031	3.94	.82
59.3	-.050	-.250	.119	.027	3.14	.71
55.0	.050	-.226	.158	.031	4.17	.82
50.8	.150	-.202	.141	.029	3.72	.77
46.7	.250	-.178	.134	.027	3.54	.71
42.6	.350	-.155	.119	.026	3.14	.69
38.4	.450	-.131	.177	.031	4.68	.82
34.1	.550	-.107	.169	.031	4.46	.82
29.6	.650	-.083	.188	.032	4.97	.85
24.6	.750	-.059	.143	.027	3.78	.71
18.8	.850	-.036	.144	.032	3.80	.85

PLAB= .623 GEV/C, ECM=1.620 GEV, SYS ER= 5.0 TEC=HBC REF=78C1

139.3	-.950	-.508	.483	.053	11.65	1.28
115.9	-.850	-.482	.475	.053	11.46	1.28
102.6	-.750	-.456	.379	.048	9.14	1.16
93.1	-.650	-.430	.330	.045	7.96	1.09

KL P = KS P DIFFERENTIAL CROSS SECTIONS

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR
PLAB= .623 GEV/C, ECM=1.620 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
85.5	-.550	-.404	.259	.038	6.25	.92
79.0	-.450	-.378	.169	.029	4.08	.70
73.3	-.350	-.352	.189	.030	4.56	.72
68.2	-.250	-.326	.154	.026	3.72	.63
63.4	-.150	-.299	.135	.024	3.26	.58
58.9	-.050	-.273	.103	.021	2.49	.51
54.6	.050	-.247	.137	.023	3.31	.55
50.5	.150	-.221	.095	.019	2.29	.46
46.4	.250	-.195	.118	.021	2.85	.51
42.3	.350	-.169	.110	.021	2.65	.51
38.1	.450	-.143	.114	.021	2.75	.51
33.9	.550	-.117	.106	.020	2.56	.48
29.3	.650	-.091	.173	.025	4.17	.60
24.4	.750	-.065	.150	.023	3.62	.55
18.6	.850	-.039	.204	.033	4.92	.80
PLAB= .636 GEV/C, ECM=1.626 GEV, SYS ER=15.0 TEC=HBC REF=75A1						
139.1	-.950	-.525	.330	.090	7.70	2.10
108.4	-.800	-.485	.295	.055	6.88	1.28
88.9	-.600	-.431	.140	.035	3.26	.82
75.9	-.400	-.377	.135	.033	3.15	.77
68.0	-.250	-.337	.100	.030	2.33	.70
63.3	-.150	-.310	.060	.020	1.40	.47
52.4	.100	-.242	.060	.020	1.40	.47
46.2	.250	-.202	.080	.025	1.87	.58
42.2	.350	-.175	.100	.030	2.33	.70
38.0	.450	-.148	.115	.030	2.68	.70
33.8	.550	-.121	.110	.030	2.57	.70
29.2	.650	-.094	.140	.035	3.26	.82
24.3	.750	-.067	.120	.035	2.80	.82
18.5	.850	-.040	.165	.050	3.85	1.17
PLAB= .645 GEV/C, ECM=1.630 GEV, SYS ER= 5.0 TEC=HBC REF=79C2						
139.1	-.950	-.538	.566	.082	12.90	1.87
115.6	-.850	-.510	.385	.069	8.77	1.57
102.4	-.750	-.482	.358	.066	8.16	1.50
92.8	-.650	-.455	.201	.049	4.58	1.12
85.2	-.550	-.427	.184	.045	4.19	1.03
78.7	-.450	-.400	.126	.035	2.87	.80
73.1	-.350	-.372	.122	.032	2.78	.73
67.9	-.250	-.345	.119	.032	2.71	.73
63.2	-.150	-.317	.107	.030	2.44	.68
58.7	-.050	-.289	.123	.030	2.80	.68
54.4	.050	-.262	.099	.026	2.26	.59
50.2	.150	-.234	.043	.018	.98	.41
46.1	.250	-.207	.064	.022	1.46	.50
42.1	.350	-.179	.066	.021	1.50	.48
37.9	.450	-.152	.108	.027	2.46	.62
33.7	.550	-.124	.068	.022	1.55	.50
29.2	.650	-.096	.152	.032	3.46	.73
24.2	.750	-.069	.134	.032	3.05	.73
PLAB= .656 GEV/C, ECM=1.635 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
138.9	-.950	-.553	.626	.067	13.88	1.49
115.5	-.850	-.524	.412	.055	9.13	1.22
102.2	-.750	-.496	.395	.055	8.76	1.22
92.7	-.650	-.468	.245	.042	5.43	.93
85.0	-.550	-.439	.201	.038	4.46	.84
78.6	-.450	-.411	.266	.042	5.90	.93
72.9	-.350	-.383	.204	.035	4.52	.78
67.8	-.250	-.354	.138	.028	3.06	.62
63.0	-.150	-.326	.105	.024	2.33	.53
58.5	-.050	-.298	.111	.024	2.46	.53
54.3	.050	-.269	.088	.022	1.95	.49
50.1	.150	-.241	.089	.021	1.97	.47
46.0	.250	-.213	.080	.020	1.77	.44
42.0	.350	-.184	.100	.022	2.22	.49
37.8	.450	-.156	.080	.019	1.77	.42
33.6	.550	-.128	.153	.027	3.39	.60
29.1	.650	-.099	.135	.026	2.99	.58
24.2	.750	-.071	.159	.027	3.52	.60
18.4	.850	-.043	.211	.034	4.68	.75
PLAB= .678 GEV/C, ECM=1.645 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
138.7	-.950	-.583	.541	.065	11.37	1.37
115.2	-.850	-.553	.510	.063	10.71	1.32
101.9	-.750	-.523	.467	.062	9.81	1.30
92.4	-.650	-.493	.213	.041	4.47	.86
84.7	-.550	-.464	.197	.038	4.14	.80
78.3	-.450	-.434	.194	.037	4.08	.78
72.6	-.350	-.404	.143	.030	3.00	.63
67.5	-.250	-.374	.139	.029	2.92	.61
62.7	-.150	-.344	.127	.027	2.67	.57
58.3	-.050	-.314	.078	.021	1.64	.44

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR
PLAB= .678 GEV/C, ECM=1.645 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
54.0	.050	-.284	.088	.022	1.85	.46
49.9	.150	-.254	.105	.024	2.21	.50
45.8	.250	-.224	.071	.020	1.49	.42
41.7	.350	-.194	.091	.022	1.91	.46
37.6	.450	-.164	.080	.020	1.68	.42
33.4	.550	-.135	.166	.029	3.49	.61
28.9	.650	-.105	.223	.033	4.68	.69
24.0	.750	-.075	.223	.034	4.68	.71
18.3	.850	-.045	.201	.035	4.22	.74
PLAB= .699 GEV/C, ECM=1.655 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
138.5	-.950	-.613	.642	.075	12.84	1.50
114.9	-.850	-.581	.596	.073	11.92	1.46
101.6	-.750	-.550	.375	.059	7.50	1.18
92.1	-.650	-.518	.306	.053	6.12	1.06
84.5	-.550	-.487	.175	.038	3.50	.76
78.0	-.450	-.456	.160	.035	3.20	.70
72.3	-.350	-.424	.112	.028	2.24	.56
67.2	-.250	-.393	.157	.033	3.14	.66
62.5	-.150	-.361	.091	.024	1.82	.48
58.0	-.050	-.330	.081	.023	1.62	.46
53.7	.050	-.298	.038	.016	.76	.32
49.6	.150	-.267	.043	.016	.86	.32
45.6	.250	-.236	.054	.018	1.08	.36
41.5	.350	-.204	.053	.018	1.06	.36
37.4	.450	-.173	.082	.022	1.64	.44
33.2	.550	-.141	.115	.026	2.30	.52
28.8	.650	-.110	.143	.029	2.86	.58
23.9	.750	-.079	.218	.035	4.36	.70
18.2	.850	-.047	.265	.041	5.30	.82
PLAB= .737 GEV/C, ECM=1.672 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
138.1	-.950	-.667	.737	.055	13.54	1.01
114.4	-.850	-.633	.538	.048	9.89	.88
101.1	-.750	-.598	.502	.047	9.22	.86
91.6	-.650	-.564	.329	.038	6.05	.70
83.9	-.550	-.530	.213	.029	3.91	.53
77.5	-.450	-.496	.146	.023	2.68	.42
71.8	-.350	-.462	.150	.022	2.76	.40
66.7	-.250	-.427	.133	.021	2.44	.39
62.0	-.150	-.393	.092	.017	1.69	.31
57.6	-.050	-.359	.091	.017	1.67	.31
53.3	.050	-.325	.074	.015	1.36	.28
49.2	.150	-.291	.077	.015	1.41	.28
45.2	.250	-.256	.090	.016	1.65	.29
41.1	.350	-.222	.111	.018	2.04	.33
37.1	.450	-.188	.114	.018	2.09	.33
32.9	.550	-.154	.177	.022	3.25	.40
28.5	.650	-.120	.203	.024	3.73	.44
23.7	.750	-.085	.244	.026	4.48	.48
18.0	.850	-.051	.306	.030	5.62	.55
PLAB= .737 GEV/C, ECM=1.672 GEV, SYS ER= 5.0 TEC=HBC REF=79C2						
138.1	-.950	-.667	.652	.090	11.98	1.65
114.4	-.850	-.633	.373	.070	6.85	1.29
101.1	-.750	-.598	.282	.061	5.18	1.12
91.6	-.650	-.564	.335	.065	6.16	1.19
83.9	-.550	-.530	.283	.057	5.20	1.05
77.5	-.450	-.496	.156	.041	2.87	.75
71.8	-.350	-.462	.148	.038	2.72	.70
66.7	-.250	-.427	.112	.032	2.06	.59
62.0	-.150	-.393	.070	.025	1.29	.46
57.6	-.050	-.359	.051	.020	.94	.37
53.3	.050	-.325	.082	.026	1.51	.48
49.2	.150	-.291	.095	.028	1.75	.51
45.2	.250	-.256	.095	.028	1.75	.51
41.1	.350	-.222	.090	.027	1.65	.50
37.1	.450	-.188	.090	.027	1.65	.50
32.9	.550	-.154	.123	.031	2.26	.57
28.5	.650	-.120	.154	.034	2.83	.62
23.7	.750	-.085	.269	.047	4.94	.86
PLAB= .791 GEV/C, ECM=1.698 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
137.6	-.950	-.745	.737	.064	12.11	1.05
113.7	-.850	-.707	.648	.060	10.65	.99
100.4	-.750	-.669	.455	.051	7.48	.84
90.8	-.650	-.631	.383	.046	6.29	.76
83.2	-.550	-.593	.288	.039	4.73	.64
76.8	-.450	-.554	.152	.027	2.50	.44
71.1	-.350	-.516	.169	.028	2.78	.46
66.0	-.250	-.478	.118	.023	1.94	.38
61.3	-.150	-.440	.102	.021	1.68	.35
56.9	-.050	-.401	.104	.021	1.71	.35
52.7	.050	-.363	.103	.021	1.69	.35

KL P = KS P DIFFERENTIAL CROSS SECTIONS

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR
PLAB= .791 GEV/C, ECM=1.698 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
48.6	.150	-.325	.097	.019	1.59	.31
44.6	.250	-.287	.122	.022	2.01	.36
40.6	.350	-.248	.188	.027	3.09	.44
36.6	.450	-.210	.203	.028	3.34	.46
32.5	.550	-.172	.241	.030	3.96	.49
28.1	.650	-.134	.340	.036	5.59	.59
23.3	.750	-.096	.394	.038	6.48	.62
17.8	.850	-.057	.379	.038	6.23	.62
PLAB= .812 GEV/C, ECM=1.707 GEV, SYS ER= 5.0 TEC=HBC REF=79C2						
137.4	-.950	-.777	.826	.075	13.03	1.18
113.5	-.850	-.737	.633	.067	9.99	1.06
100.1	-.750	-.697	.504	.059	7.95	.93
90.6	-.650	-.657	.373	.051	5.89	.80
82.9	-.550	-.617	.314	.045	4.95	.71
76.5	-.450	-.577	.239	.037	3.77	.58
70.9	-.350	-.538	.134	.026	2.11	.41
65.8	-.250	-.498	.153	.027	2.41	.43
61.1	-.150	-.458	.120	.024	1.89	.38
56.7	-.050	-.418	.106	.023	1.67	.36
52.4	.050	-.378	.071	.018	1.12	.28
48.4	.150	-.338	.120	.023	1.89	.36
44.4	.250	-.299	.116	.023	1.83	.36
40.4	.350	-.259	.163	.027	2.57	.43
36.4	.450	-.219	.209	.031	3.30	.49
32.3	.550	-.179	.269	.034	4.24	.54
28.0	.650	-.139	.334	.063	5.27	.99
23.2	.750	-.100	.439	.044	6.93	.69
17.7	.850	-.060	.534	.052	8.43	.82
PLAB= .887 GEV/C, ECM=1.743 GEV, SYS ER= 5.0 TEC=HBC REF=79C2						
136.7	-.950	-.890	1.301	.095	17.92	1.31
112.5	-.850	-.844	.855	.078	11.78	1.07
99.1	-.750	-.798	.650	.070	8.95	.96
89.6	-.650	-.753	.404	.054	5.56	.74
82.0	-.550	-.707	.322	.045	4.43	.62
75.5	-.450	-.661	.153	.029	2.11	.40
69.9	-.350	-.616	.150	.028	2.07	.39
64.8	-.250	-.570	.137	.028	1.89	.39
60.2	-.150	-.525	.078	.020	1.07	.28
55.8	-.050	-.479	.082	.019	1.13	.26
51.6	.050	-.433	.084	.020	1.16	.28
47.6	.150	-.388	.153	.027	2.11	.37
43.6	.250	-.342	.173	.029	2.38	.40
39.7	.350	-.297	.254	.034	3.50	.47
35.8	.450	-.251	.221	.032	3.04	.44
31.7	.550	-.205	.248	.041	3.42	.56
27.4	.650	-.160	.429	.045	5.91	.62
22.8	.750	-.114	.601	.053	8.28	.73
17.3	.850	-.068	.823	.067	11.34	.92
PLAB= .898 GEV/C, ECM=1.748 GEV, SYS ER=15.0 TEC=HBC REF=75A1						
136.5	-.950	-.906	.625	.125	8.45	1.69
112.4	-.850	-.860	.337	.100	4.56	1.35
99.0	-.750	-.813	.350	.100	4.73	1.35
89.4	-.650	-.767	.200	.050	2.70	.68
81.8	-.550	-.720	.125	.025	1.69	.34
75.4	-.450	-.674	.075	.013	1.01	.18
67.2	-.300	-.604	.063	.015	.85	.20
57.8	-.100	-.511	.088	.025	1.19	.34
51.5	.050	-.442	.113	.025	1.53	.34
47.5	.150	-.395	.125	.025	1.69	.34
43.5	.250	-.349	.150	.038	2.03	.51
39.6	.350	-.302	.138	.035	1.87	.47
35.7	.450	-.256	.100	.025	1.35	.34
31.6	.550	-.209	.275	.050	3.72	.68
27.3	.650	-.163	.238	.050	3.22	.68
22.7	.750	-.116	.438	.075	5.92	1.01
17.3	.850	-.070	.600	.088	8.11	1.19
PLAB= .956 GEV/C, ECM=1.775 GEV, SYS ER= 5.0 TEC=HBC REF=79C2						
136.0	-.950	-.996	1.343	.104	16.52	1.28
111.7	-.850	-.945	.752	.080	9.25	.98
98.3	-.750	-.894	.620	.073	7.63	.90
88.7	-.650	-.843	.462	.062	5.68	.76
81.1	-.550	-.792	.371	.054	4.56	.66
74.7	-.450	-.741	.193	.038	2.37	.47
69.1	-.350	-.690	.182	.035	2.24	.43
64.0	-.250	-.638	.162	.031	1.99	.38
59.4	-.150	-.587	.151	.031	1.86	.38
55.0	-.050	-.536	.201	.035	2.47	.43
50.9	.050	-.485	.180	.031	2.21	.38
46.9	.150	-.434	.179	.031	2.20	.38
43.0	.250	-.383	.263	.038	3.24	.47

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR
PLAB= .956 GEV/C, ECM=1.775 GEV, SYS ER= 5.0 TEC=HBC REF=79C2						
39.1	.350	-.332	.334	.044	4.11	.54
35.2	.450	-.281	.272	.039	3.35	.48
31.2	.550	-.230	.348	.045	4.28	.55
27.0	.650	-.179	.370	.045	4.55	.55
22.4	.750	-.128	.465	.052	5.72	.64
17.0	.850	-.077	.675	.065	8.30	.80
PLAB= 1.000 GEV/C, ECM=1.796 GEV, SYS ER=25.0 TEC=HBC REF=63L1						
97.7	-.750	-.956	.500	.120	5.75	1.38
77.2	-.500	-.819	.250	.080	2.88	.92
58.9	-.150	-.628	.250	.080	2.88	.92
46.4	.150	-.464	.120	.060	1.38	.69
32.8	.500	-.273	.180	.070	2.07	.81
PLAB= 1.020 GEV/C, ECM=1.805 GEV, SYS ER= 5.0 TEC=HBC REF=79C2						
135.4	-.950	-1.096	.814	.082	9.10	.92
110.9	-.850	-1.040	.665	.077	7.43	.86
97.4	-.750	-.984	.379	.058	4.23	.65
87.9	-.650	-.928	.298	.051	3.33	.57
80.3	-.550	-.872	.242	.045	2.70	.50
73.9	-.450	-.815	.232	.041	2.59	.46
68.3	-.350	-.759	.207	.038	2.31	.42
63.3	-.250	-.703	.262	.041	2.93	.46
58.6	-.150	-.647	.250	.040	2.79	.45
54.3	-.050	-.590	.303	.043	3.39	.48
50.2	.050	-.534	.235	.038	2.63	.42
46.2	.150	-.478	.321	.045	3.59	.50
42.4	.250	-.422	.287	.041	3.21	.46
38.5	.350	-.365	.216	.037	2.41	.41
34.7	.450	-.309	.254	.040	2.84	.45
30.7	.550	-.253	.263	.040	2.94	.45
26.5	.650	-.197	.284	.041	3.17	.46
22.0	.750	-.141	.335	.045	3.74	.50
16.7	.850	-.084	.405	.051	4.53	.57
PLAB= 1.084 GEV/C, ECM=1.835 GEV, SYS ER= 5.0 TEC=HBC REF=79C2						
135.4	-.950	-1.096	.591	.076	6.60	.85
110.9	-.850	-1.040	.319	.057	3.56	.64
97.4	-.750	-.984	.255	.052	2.85	.58
87.9	-.650	-.928	.247	.050	2.76	.56
80.3	-.550	-.872	.249	.048	2.78	.54
73.9	-.450	-.815	.252	.047	2.82	.53
68.3	-.350	-.759	.140	.034	1.56	.38
63.3	-.250	-.703	.207	.040	2.31	.45
58.6	-.150	-.647	.231	.042	2.58	.47
54.3	-.050	-.590	.181	.036	2.02	.40
50.2	.050	-.534	.270	.044	3.02	.49
46.2	.150	-.478	.201	.038	2.25	.42
42.4	.250	-.422	.179	.036	2.00	.40
38.5	.350	-.365	.155	.034	1.73	.38
34.7	.450	-.309	.174	.035	1.94	.39
30.7	.550	-.253	.212	.038	2.37	.42
26.5	.650	-.197	.142	.031	1.59	.35
22.0	.750	-.141	.138	.030	1.54	.34
16.7	.850	-.084	.186	.038	2.08	.42
PLAB= 1.121 GEV/C, ECM=1.852 GEV, SYS ER=15.0 TEC=HBC REF=75A1						
134.4	-.950	-1.258	.219	.038	2.13	.37
109.7	-.850	-1.194	.134	.038	1.31	.37
96.2	-.750	-1.129	.113	.031	1.10	.30
86.6	-.650	-1.064	.106	.022	1.03	.21
79.0	-.550	-1.000	.047	.016	.46	.16
72.7	-.450	-.935	.075	.019	.73	.19
67.1	-.350	-.871	.106	.022	1.03	.21
62.1	-.250	-.806	.044	.013	.43	.13
57.5	-.150	-.742	.069	.019	.67	.19
53.2	-.050	-.677	.091	.021	.89	.20
49.2	.050	-.613	.097	.022	.94	.21
45.2	.150	-.548	.106	.022	1.03	.21
41.4	.250	-.484	.088	.021	.86	.20
37.7	.350	-.419	.075	.019	.73	.19
33.9	.450	-.355	.093	.021	.91	.20
30.0	.550	-.290	.050	.016	.49	.16
25.9	.650	-.226	.059	.016	.57	.16
21.5	.750	-.161	.063	.018	.61	.18
16.3	.850	-.097	.097	.031	.94	.30
PLAB= 1.144 GEV/C, ECM=1.863 GEV, SYS ER= 5.0 TEC=HBC REF=79C2						
134.2	-.950	-1.295	.294	.063	2.78	.60
109.4	-.850	-1.229	.180	.049	1.70	.46

KL P = KS P DIFFERENTIAL CROSS SECTIONS

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR
PLAB= 1.144 GEV/C, ECM=1.863 GEV, SYS ER= 5.0 TEC=HBC REF=79C2						
95.9	-.750	-1.162	.357	.075	3.38	.71
86.3	-.650	-1.096	.216	.055	2.04	.52
78.8	-.550	-1.030	.130	.041	1.23	.39
72.4	-.450	-.963	.264	.057	2.50	.54
66.8	-.350	-.897	.178	.043	1.68	.41
61.8	-.250	-.830	.180	.043	1.70	.41
57.3	-.150	-.764	.228	.049	2.16	.46
53.0	-.050	-.697	.116	.035	1.10	.33
48.9	.050	-.631	.095	.031	.90	.29
45.0	.150	-.565	.200	.045	1.89	.43
41.2	.250	-.498	.061	.025	.58	.24
37.5	.350	-.432	.123	.035	1.16	.33
33.7	.450	-.365	.090	.030	.85	.28
29.8	.550	-.299	.083	.030	.79	.28
25.8	.650	-.232	.146	.040	1.38	.38
21.4	.750	-.166	.136	.036	1.29	.34
16.2	.850	-.100	.189	.049	1.79	.46
PLAB= 1.209 GEV/C, ECM=1.892 GEV, SYS ER= 5.0 TEC=HBC REF=79C2						
133.6	-.950	-1.401	.383	.077	3.35	.67
108.7	-.850	-1.329	.192	.055	1.68	.48
95.2	-.750	-1.258	.227	.064	1.98	.56
85.6	-.650	-1.186	.223	.062	1.95	.54
78.0	-.550	-1.114	.191	.053	1.67	.46
71.6	-.450	-1.042	.130	.042	1.14	.37
66.1	-.350	-.970	.211	.052	1.84	.45
61.1	-.250	-.898	.212	.052	1.85	.45
56.6	-.150	-.826	.124	.039	1.08	.34
52.3	-.050	-.755	.175	.045	1.53	.39
48.3	.050	-.683	.188	.048	1.64	.42
44.4	.150	-.611	.134	.039	1.17	.34
40.7	.250	-.539	.082	.030	.72	.26
36.9	.350	-.467	.116	.036	1.01	.31
33.2	.450	-.395	.108	.036	.94	.31
29.4	.550	-.323	.061	.027	.53	.24
25.4	.650	-.252	.075	.030	.66	.26
21.0	.750	-.180	.068	.027	.59	.24
16.0	.850	-.108	.108	.036	.94	.31
PLAB= 1.250 GEV/C, ECM=1.911 GEV, SYS ER=10.0 TEC=HBC REF=74B1						
133.2	-.950	-1.469	.188	.051	1.57	.42
108.2	-.850	-1.393	.124	.037	1.03	.31
94.7	-.750	-1.318	.142	.038	1.18	.31
85.1	-.650	-1.243	.107	.033	.89	.28
77.5	-.550	-1.167	.106	.032	.88	.27
71.2	-.450	-1.092	.138	.038	1.15	.31
65.7	-.350	-1.017	.128	.037	1.07	.31
60.7	-.250	-.941	.085	.028	.71	.24
56.2	-.150	-.866	.138	.039	1.15	.32
51.9	-.050	-.791	.141	.039	1.18	.32
47.9	.050	-.716	.137	.040	1.14	.33
44.1	.150	-.640	.115	.031	.96	.26
40.3	.250	-.565	.048	.017	.40	.14
36.6	.350	-.490	.137	.031	1.14	.26
32.9	.450	-.414	.040	.014	.33	.12
29.1	.550	-.339	.090	.023	.75	.19
25.1	.650	-.264	.111	.027	.93	.23
20.8	.750	-.188	.103	.027	.86	.23
15.8	.850	-.113	.128	.032	1.07	.26
9.0	.950	-.038	.319	.088	2.66	.73
PLAB= 1.497 GEV/C, ECM=2.022 GEV, SYS ER=15.0 TEC=HBC REF=75A1						
115.6	-.900	-1.834	.077	.020	.501	.130
86.8	-.700	-1.641	.027	.010	.176	.065
71.6	-.500	-1.448	.019	.008	.124	.052
56.0	-.200	-1.158	.014	.005	.091	.033
43.9	.100	-.869	.034	.010	.221	.065
36.6	.300	-.676	.036	.010	.234	.065
29.5	.500	-.483	.070	.012	.456	.078
21.8	.700	-.290	.060	.012	.391	.078
15.0	.850	-.145	.071	.020	.462	.130
PLAB= 1.650 GEV/C, ECM=2.089 GEV, SYS ER= 0.0 TEC=HBC REF=71B1						
9.6	.932	-.075	.115	.037	.660	.210
13.8	.864	-.150	.077	.019	.443	.110
18.2	.773	-.250	.042	.015	.241	.085
21.9	.682	-.350	.052	.017	.296	.096
25.3	.591	-.450	.045	.014	.258	.082
28.6	.500	-.550	.090	.022	.517	.125
31.8	.409	-.650	.048	.015	.273	.083
35.0	.318	-.750	.066	.017	.378	.095
39.8	.181	-.900	.030	.008	.172	.045
46.5	-.001	-1.100	.038	.010	.215	.055
53.8	-.183	-1.300	.026	.008	.147	.044

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR
PLAB= 1.650 GEV/C, ECM=2.089 GEV, SYS ER= 0.0 TEC=HBC REF=71B1						
62.4	-.365	-1.500	.058	.013	.332	.076
73.1	-.547	-1.700	.033	.009	.188	.054
PLAB= 1.750 GEV/C, ECM=2.131 GEV, SYS ER=10.0 TEC=HBC REF=74B1						
128.9	-.950	-2.315	.081	.021	.429	.113
103.1	-.850	-2.196	.041	.014	.219	.076
89.4	-.750	-2.077	.024	.010	.126	.054
79.8	-.650	-1.959	.037	.013	.194	.070
72.3	-.550	-1.840	.028	.011	.150	.057
63.3	-.400	-1.662	.019	.006	.101	.033
53.7	-.200	-1.425	.018	.006	.094	.032
47.6	-.050	-1.246	.047	.014	.248	.074
43.8	.050	-1.128	.036	.010	.191	.052
40.2	.150	-1.009	.042	.011	.220	.056
36.7	.250	-.890	.060	.013	.318	.069
33.2	.350	-.772	.083	.016	.439	.082
29.8	.450	-.653	.077	.015	.409	.080
26.3	.550	-.534	.052	.012	.276	.063
22.7	.650	-.415	.054	.012	.284	.066
18.8	.750	-.297	.069	.015	.367	.077
14.2	.850	-.178	.084	.017	.442	.092
18.8	.750	-.297	.246	.060	1.302	.315
PLAB= 1.866 GEV/C, ECM=2.180 GEV, SYS ER=15.0 TEC=HBC REF=75A1						
102.0	-.850	-2.387	.017	.006	.083	.029
71.3	-.550	-2.000	.006	.002	.029	.010
55.0	-.250	-1.613	.006	.002	.029	.010
44.8	0.000	-1.290	.015	.004	.073	.019
39.4	.150	-1.097	.017	.006	.083	.029
30.9	.400	-.774	.028	.007	.136	.034
24.0	.600	-.516	.048	.008	.234	.039
16.2	.800	-.258	.037	.007	.180	.034
PLAB= 2.000 GEV/C, ECM=2.235 GEV, SYS ER=10.0 TEC=HBC REF=74B1						
32.6	.326	-.950	.037	.008	.166	.035
30.3	.397	-.850	.058	.010	.257	.044
27.9	.468	-.750	.062	.011	.275	.047
26.1	.521	-.675	.088	.017	.393	.077
24.9	.557	-.625	.067	.015	.299	.067
23.7	.592	-.575	.086	.018	.384	.081
22.5	.628	-.525	.059	.014	.263	.063
21.2	.663	-.475	.053	.013	.234	.056
19.9	.699	-.425	.042	.011	.187	.051
18.5	.734	-.375	.068	.017	.302	.074
17.1	.769	-.325	.062	.015	.275	.067
15.6	.805	-.275	.047	.013	.210	.060
14.0	.840	-.225	.046	.013	.207	.059
12.3	.876	-.175	.093	.020	.413	.089
10.3	.911	-.125	.115	.023	.514	.101
7.9	.947	-.075	.158	.031	.702	.138
5.5	.974	-.037	.394	.178	1.754	.795
PLAB= 2.250 GEV/C, ECM=2.335 GEV, SYS ER=10.0 TEC=HBC REF=74B1						
138.8	-.975	-3.229	.054	.019	.206	.071
115.9	-.925	-3.147	.018	.012	.071	.046
91.1	-.800	-2.943	.008	.003	.030	.012
75.4	-.650	-2.697	.011	.006	.041	.023
68.1	-.550	-2.534	.026	.008	.101	.032
62.0	-.450	-2.371	.024	.008	.091	.030
54.4	-.300	-2.125	.007	.003	.025	.011
46.0	-.100	-1.798	.012	.004	.046	.015
38.8	.100	-1.471	.008	.003	.031	.010
33.8	.250	-1.226	.016	.006	.062	.022
30.6	.350	-1.063	.021	.006	.081	.024
27.4	.450	-.899	.045	.009	.171	.035
24.1	.550	-.736	.061	.011	.233	.042
20.8	.650	-.572	.057	.010	.220	.040
17.2	.750	-.409	.045	.009	.171	.035
13.0	.850	-.245	.050	.010	.191	.040
7.4	.950	-.082	.167	.034	.642	.131
PLAB= 3.000 GEV/C, ECM=2.614 GEV, SYS ER=10.0 TEC=HBC REF=74B1						
120.2	-.950	-4.521	.004	.002	.011	.006
85.6	-.800	-4.173	.002	.001	.007	.003
66.3	-.600	-3.710	.001	.001	.003	.003
54.4	-.400	-3.246	.004	.001	.011	.004
45.6	-.200	-2.782	.004	.001	.011	.004
38.3	0.000	-2.319	.004	.001	.011	.003
32.0	.200	-1.855	.004	.001	.010	.003
27.5	.350	-1.507	.007	.002	.018	.005

KL P = KS P DIFFERENTIAL CROSS SECTIONS

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR
PLAB= 3.000 GEV/C, ECM=2.614 GEV, SYS ER=10.0 TEC=HBC REF=7481						
24.6	.450	-1.275	.009	.002	.023	.006
21.7	.550	-1.043	.016	.003	.043	.009
18.6	.650	-.811	.038	.005	.102	.014
15.4	.750	-.580	.032	.005	.087	.013
11.6	.850	-.348	.047	.006	.128	.017
6.6	.950	-.116	.125	.020	.339	.053
PLAB= 3.000 GEV/C, ECM=2.614 GEV, SYS ER=15.0 TEC=HBC REF=7181						
28.7	.310	-1.600	.006	.001	.016	.004
24.9	.439	-1.300	.012	.005	.033	.013
22.4	.526	-1.100	.017	.004	.047	.012
19.8	.612	-.900	.026	.006	.071	.015
17.8	.677	-.750	.033	.009	.089	.024
16.4	.720	-.650	.045	.010	.123	.028
14.9	.763	-.550	.027	.008	.073	.021
13.4	.806	-.450	.038	.009	.102	.025
11.7	.849	-.350	.041	.010	.112	.026
9.8	.892	-.250	.039	.009	.107	.025
7.5	.935	-.150	.072	.013	.196	.035
5.3	.968	-.075	.136	.028	.368	.075
PLAB= 3.000 GEV/C, ECM=2.614 GEV, SYS ER=15.0 TEC=HBC REF=7481						
20.5	.590	-.950	.030	.007	.081	.019
19.2	.633	-.850	.035	.007	.094	.020
17.8	.677	-.750	.028	.007	.075	.018
16.8	.709	-.675	.036	.010	.097	.028
16.0	.730	-.625	.032	.010	.086	.027
15.3	.752	-.575	.057	.013	.155	.036
14.5	.774	-.525	.039	.012	.106	.032
13.8	.795	-.475	.033	.010	.088	.027
13.0	.817	-.425	.050	.013	.136	.035
12.1	.838	-.375	.058	.014	.158	.038
11.2	.860	-.325	.039	.011	.105	.030
10.3	.881	-.275	.045	.012	.122	.034
9.3	.903	-.225	.041	.012	.111	.032
8.1	.925	-.175	.090	.019	.243	.052
6.8	.946	-.125	.114	.022	.308	.060
5.3	.968	-.075	.127	.029	.344	.080
3.7	.984	-.037	.192	.094	.520	.255

KL P = KS P DIFFERENTIAL CROSS SECTIONS

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR
PLAB= 4.250 GEV/C, ECM=3.026 GEV, SYS ER=10.0 TEC=HBC REF=74B1						
113.6	-.950	-6.772	.0018	.0001	.0033	.0002
67.6	-.700	-5.904	.0002	.0002	.0004	.0004
40.3	-.200	-4.167	.0001	.0001	.0002	.0002
28.0	.200	-2.778	.0013	.0005	.0024	.0009
22.7	.400	-2.084	.0013	.0005	.0024	.0009
18.8	.550	-1.563	.0036	.0011	.0065	.0020
16.2	.650	-1.215	.0069	.0017	.0125	.0031
13.3	.750	-.868	.0199	.0029	.0360	.0052
10.1	.850	-.521	.0307	.0038	.0555	.0069
5.7	.950	-.174	.0953	.0147	.1724	.0266
PLAB= 4.250 GEV/C, ECM=3.026 GEV, SYS ER=10.0 TEC=HBC REF=74B1						
14.0	.726	-.950	.0181	.0049	.0328	.0089
13.2	.755	-.850	.0202	.0053	.0366	.0096
12.3	.784	-.750	.0223	.0058	.0403	.0105
11.3	.813	-.650	.0190	.0050	.0344	.0090
10.6	.834	-.575	.0412	.0105	.0746	.0190
10.1	.849	-.525	.0543	.0124	.0983	.0225
9.6	.863	-.475	.0381	.0103	.0690	.0187
9.0	.878	-.425	.0212	.0076	.0384	.0137
8.5	.892	-.375	.0268	.0086	.0485	.0156
7.8	.906	-.325	.0255	.0086	.0461	.0156
7.2	.921	-.275	.0531	.0133	.0960	.0240
6.5	.935	-.225	.0352	.0100	.0637	.0181
5.7	.950	-.175	.0507	.0135	.0918	.0244
4.8	.964	-.125	.0973	.0195	.1760	.0353
3.7	.978	-.075	.1951	.0407	.3530	.0736
2.6	.989	-.037	.1984	.0951	.3590	.1720
PLAB= 4.500 GEV/C, ECM=3.102 GEV, SYS ER=15.0 TEC=SC REF=78C3						
13.6	.730	-1.000	.0115	.0027	.0195	.0046
12.4	.771	-.850	.0179	.0037	.0304	.0063
11.6	.798	-.750	.0275	.0039	.0466	.0067
10.7	.825	-.650	.0258	.0034	.0437	.0058
9.8	.852	-.550	.0278	.0031	.0471	.0052
8.8	.879	-.450	.0327	.0029	.0554	.0050
7.7	.906	-.350	.0335	.0026	.0569	.0045
6.8	.926	-.275	.0342	.0034	.0581	.0058
6.1	.939	-.225	.0354	.0031	.0601	.0053
5.4	.953	-.175	.0463	.0033	.0786	.0056
4.5	.966	-.125	.0632	.0030	.1072	.0051
PLAB= 5.000 GEV/C, ECM=3.249 GEV, SYS ER=15.0 TEC=HBC REF=66F1						
11.4	.784	-.900	.0073	.0053	.0110	.0080
10.0	.832	-.700	.0113	.0066	.0170	.0100
8.3	.880	-.500	.0153	.0073	.0230	.0110
6.4	.928	-.300	.0305	.0106	.0460	.0160
3.6	.976	-.100	.0604	.0139	.0910	.0210
14.1	.688	-1.300	.0040	.0040	.0060	.0060
12.9	.734	-1.110	.0040	.0040	.0060	.0060
PLAB= 5.500 GEV/C, ECM=3.390 GEV, SYS ER=15.0 TEC=SC REF=78C3						
12.7	.720	-1.300	.0049	.0010	.0066	.0013
11.0	.784	-1.000	.0073	.0012	.0100	.0016
10.0	.817	-.850	.0146	.0021	.0198	.0028
9.4	.838	-.750	.0171	.0021	.0232	.0028
8.7	.860	-.650	.0207	.0022	.0281	.0029
7.9	.881	-.550	.0215	.0021	.0291	.0028
7.1	.903	-.450	.0254	.0021	.0344	.0029
6.3	.924	-.350	.0237	.0019	.0321	.0026
5.5	.941	-.275	.0300	.0027	.0407	.0037
5.0	.951	-.225	.0339	.0027	.0459	.0037
4.4	.962	-.175	.0431	.0029	.0585	.0039
3.7	.973	-.125	.0580	.0032	.0786	.0043
PLAB= 6.000 GEV/C, ECM=3.525 GEV, SYS ER=15.0 TEC=HBC REF=71B1						
12.6	.706	-1.500	.0008	.0008	.0010	.0010
10.0	.804	-1.000	.0089	.0024	.0110	.0030
8.3	.863	-.700	.0154	.0049	.0190	.0060
6.9	.902	-.500	.0130	.0057	.0160	.0070
5.7	.931	-.350	.0260	.0097	.0320	.0120
4.8	.951	-.250	.0284	.0097	.0350	.0120
3.7	.971	-.150	.0593	.0146	.0730	.0180
2.6	.985	-.075	.1437	.0349	.1770	.0430

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR
PLAB= 6.250 GEV/C, ECM=3.591 GEV, SYS ER=10.0 TEC=HBC REF=74B1						
105.6	-.950	-10.402	.0003	.0005	.0004	.0006
59.9	-.700	-9.068	.0001	.0001	.0001	.0001
14.8	.600	-2.134	.0007	.0003	.0009	.0004
11.3	.750	-1.334	.0026	.0009	.0030	.0010
8.5	.850	-.800	.0153	.0025	.0180	.0029
4.8	.950	-.267	.0528	.0083	.0622	.0098
PLAB= 6.250 GEV/C, ECM=3.591 GEV, SYS ER=15.0 TEC=HBC REF=74B1						
9.1	.831	-.900	.0112	.0034	.0132	.0040
7.9	.869	-.700	.0138	.0038	.0163	.0045
7.0	.897	-.550	.0190	.0056	.0224	.0066
6.3	.916	-.450	.0163	.0055	.0192	.0065
5.5	.934	-.350	.0221	.0069	.0260	.0081
4.9	.948	-.275	.0334	.0122	.0393	.0144
4.4	.958	-.225	.0160	.0073	.0189	.0086
3.9	.967	-.175	.0526	.0154	.0619	.0181
3.3	.977	-.125	.0768	.0185	.0905	.0218
2.5	.986	-.075	.1197	.0301	.1410	.0354
1.8	.993	-.037	.1774	.0925	.2090	.1090
PLAB= 6.250 GEV/C, ECM=3.591 GEV, SYS ER=10.0 TEC=HBC REF=79M1						
1.8	.993	-.037	.1681	.0424	.1980	.0500
2.5	.986	-.075	.1197	.0280	.1410	.0330
3.3	.977	-.125	.0968	.0280	.1140	.0330
4.1	.963	-.200	.0569	.0178	.0670	.0210
5.1	.944	-.300	.0484	.0204	.0570	.0240
6.1	.920	-.425	.0280	.0161	.0330	.0190
PLAB= 6.500 GEV/C, ECM=3.655 GEV, SYS ER=15.0 TEC=SC REF=78C3						
12.6	.686	-1.750	.0005	.0002	.0006	.0003
10.6	.767	-1.300	.0020	.0004	.0022	.0004
9.2	.820	-1.000	.0059	.0009	.0066	.0010
8.4	.847	-.850	.0104	.0016	.0117	.0018
7.9	.865	-.750	.0141	.0018	.0159	.0021
7.3	.883	-.650	.0157	.0018	.0177	.0021
6.7	.901	-.550	.0200	.0019	.0225	.0022
6.0	.919	-.450	.0221	.0019	.0249	.0021
5.3	.937	-.350	.0207	.0017	.0233	.0019
4.7	.951	-.275	.0247	.0024	.0278	.0028
4.2	.960	-.225	.0283	.0025	.0320	.0029
3.7	.969	-.175	.0445	.0031	.0502	.0035
3.1	.978	-.125	.0531	.0033	.0599	.0038
PLAB= 7.500 GEV/C, ECM=3.903 GEV, SYS ER=15.0 TEC=SC REF=78C3						
10.8	.731	-1.750	.0002	.0001	.0002	.0001
9.1	.800	-1.300	.0017	.0004	.0016	.0004
7.9	.846	-1.000	.0043	.0008	.0042	.0008
7.3	.869	-.850	.0102	.0016	.0099	.0016
6.8	.885	-.750	.0094	.0015	.0091	.0015
6.3	.900	-.650	.0148	.0018	.0143	.0017
5.8	.915	-.550	.0130	.0016	.0125	.0015
5.2	.931	-.450	.0151	.0016	.0146	.0016
4.6	.946	-.350	.0177	.0017	.0171	.0016
4.0	.958	-.275	.0219	.0026	.0212	.0025
3.7	.965	-.225	.0292	.0029	.0282	.0028
3.2	.973	-.175	.0376	.0033	.0364	.0032
2.7	.981	-.125	.0552	.0040	.0534	.0038
PLAB= 8.750 GEV/C, ECM=4.192 GEV, SYS ER=15.0 TEC=HBC REF=74B1						
8.4	.804	-1.500	.0012	.0012	.0010	.0010
5.8	.902	-.750	.0033	.0037	.0027	.0030
4.1	.951	-.375	.0251	.0100	.0206	.0082
2.8	.977	-.175	.0504	.0187	.0413	.0153
1.6	.992	-.062	.0917	.0459	.0751	.0376
PLAB= 8.750 GEV/C, ECM=4.192 GEV, SYS ER=10.0 TEC=HBC REF=79M1						
1.3	.995	-.037	.2661	.0818	.2180	.0670
1.8	.990	-.075	.1453	.0452	.1190	.0370
2.3	.984	-.125	.1428	.0464	.1170	.0380
2.9	.974	-.200	.0391	.0171	.0320	.0140
3.6	.961	-.300	.0317	.0183	.0260	.0150
4.3	.945	-.425	.0094	.0094	.0077	.0077

KL P = KS P DIFFERENTIAL CROSS SECTIONS

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR
PLAB= 9.000 GEV/C, ECM=4.248 GEV, SYS ER=15.0 TEC=SC REF=78C3						
8.9	.779	-1.750	.0005	.0002	.0004	.0001
7.6	.836	-1.300	.0014	.0002	.0011	.0002
6.6	.873	-1.000	.0035	.0006	.0028	.0004
6.0	.892	-.850	.0057	.0010	.0045	.0008
5.6	.905	-.750	.0098	.0013	.0078	.0011
5.2	.918	-.650	.0110	.0014	.0087	.0011
4.8	.930	-.550	.0166	.0017	.0132	.0013
4.3	.943	-.450	.0180	.0017	.0143	.0014
3.8	.956	-.350	.0199	.0017	.0158	.0014
3.4	.965	-.275	.0243	.0026	.0193	.0021
3.0	.972	-.225	.0236	.0026	.0188	.0020
2.7	.978	-.175	.0405	.0034	.0322	.0027
2.3	.984	-.125	.0577	.0041	.0459	.0033
PLAB=11.000 GEV/C, ECM=4.668 GEV, SYS ER=15.0 TEC=SC REF=78C3						
7.2	.821	-1.750	.0002	.0002	.0002	.0001
6.1	.867	-1.300	.0006	.0002	.0004	.0002
5.3	.898	-1.000	.0020	.0006	.0013	.0004
4.9	.913	-.850	.0058	.0015	.0037	.0010
4.6	.923	-.750	.0091	.0019	.0059	.0013
4.3	.934	-.650	.0096	.0020	.0061	.0013
3.9	.944	-.550	.0110	.0021	.0071	.0014
3.5	.954	-.450	.0164	.0026	.0105	.0017
3.1	.964	-.350	.0195	.0028	.0125	.0018
2.7	.972	-.275	.0272	.0046	.0175	.0029
2.5	.977	-.225	.0307	.0049	.0198	.0031
2.2	.982	-.175	.0368	.0054	.0236	.0035
1.8	.987	-.125	.0563	.0070	.0362	.0045
PLAB=13.000 GEV/C, ECM=5.054 GEV, SYS ER=15.0 TEC=SC REF=78C3						
6.1	.850	-1.750	.0006	.0003	.0003	.0002
5.2	.888	-1.300	.0008	.0004	.0004	.0002
4.5	.914	-1.000	.0024	.0009	.0013	.0005
4.1	.927	-.850	.0039	.0018	.0021	.0010
3.9	.936	-.750	.0050	.0021	.0027	.0011
3.6	.944	-.650	.0078	.0027	.0042	.0015
3.3	.953	-.550	.0088	.0029	.0047	.0016
3.0	.961	-.450	.0104	.0032	.0056	.0017
2.6	.970	-.350	.0188	.0044	.0102	.0024
2.3	.976	-.275	.0227	.0065	.0122	.0035
2.1	.981	-.225	.0262	.0071	.0142	.0038
1.9	.985	-.175	.0417	.0095	.0225	.0051
1.6	.989	-.125	.0577	.0122	.0311	.0066

THE NUMBER OF DATA POINTS IS = 794
THE TOTAL NUMBER OF DATA CARDS IS = 847
THE NUMBER OF ENERGY DATA IS = 53

KL P = KL P DIFFERENTIAL CROSS SECTIONS

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR
PLAB= 4.000 GEV/C, ECM=2.948 GEV, SYS ER=25.0 TEC=C REF=79C1						
13.6	.753	-.400	.103	.077	.200	.150
11.6	.815	-.600	.227	.077	.440	.150
9.3	.877	-.400	.686	.103	1.330	.200
6.5	.938	-.200	1.934	.144	3.750	.280
PLAB= 6.000 GEV/C, ECM=3.525 GEV, SYS ER=25.0 TEC=C REF=79C1						
11.1	.765	-1.200	.049	.049	.060	.060
10.0	.804	-1.000	.089	.065	.110	.080
8.9	.843	-.800	.219	.097	.270	.120
7.6	.882	-.600	.763	.154	.940	.190
6.2	.922	-.400	1.291	.260	1.590	.320
4.3	.961	-.200	3.077	.260	3.790	.320
PLAB= 8.000 GEV/C, ECM=4.021 GEV, SYS ER=25.0 TEC=C REF=79C1						
8.2	.828	-1.200	.122	.122	.110	.110
7.4	.857	-1.000	.133	.133	.120	.120
6.6	.885	-.800	.333	.211	.300	.190
5.7	.914	-.600	.799	.266	.720	.240
4.6	.943	-.400	1.786	.366	1.610	.330
3.2	.971	-.200	4.326	.555	3.900	.500
PLAB=10.000 GEV/C, ECM=4.463 GEV, SYS ER=25.0 TEC=C REF=79C1						
5.9	.887	-1.000	.394	.324	.280	.230
5.2	.910	-.800	.239	.253	.170	.180
4.5	.932	-.600	1.449	.647	1.030	.460
3.7	.955	-.400	.464	.338	.330	.240
2.6	.977	-.200	6.275	1.238	4.460	.880
PLAB=12.000 GEV/C, ECM=4.865 GEV, SYS ER=25.0 TEC=C REF=79C1						
3.7	.944	-.600	1.688	1.466	.990	.860
3.0	.963	-.400	2.131	1.279	1.250	.750
2.1	.981	-.200	6.599	2.183	3.870	1.280

THE NUMBER OF DATA POINTS IS = 24
THE TOTAL NUMBER OF DATA CARDS IS = 29
THE NUMBER OF ENERGY DATA IS = 5

K0 P=K+ N DIFFERENTIAL CROSS SECTIONS

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR
PLAB= .650 GEV/C, ECM=1.632 GEV, SYS ER=10.0 TEC=C REF=77A1						
78.7	-.450	-.407	.700	.150	15.67	3.36
73.0	-.350	-.379	.760	.150	17.01	3.36
67.8	-.250	-.351	.860	.170	19.25	3.80
63.1	-.150	-.323	.930	.180	20.81	4.03
58.6	-.050	-.295	.650	.140	14.55	3.13
54.3	.050	-.267	.830	.130	18.58	2.91
50.2	.150	-.239	.970	.130	21.71	2.91
46.1	.250	-.211	.890	.150	19.92	3.36
42.0	.350	-.182	.780	.210	17.46	4.70
35.8	.500	-.140	.760	.290	17.01	6.49
29.1	.650	-.098	.920	.260	20.59	5.82
24.2	.750	-.070	.790	.200	17.68	4.48
18.5	.850	-.042	.800	.310	17.90	6.94
PLAB= .750 GEV/C, ECM=1.678 GEV, SYS ER=10.0 TEC=C REF=77A1						
77.3	-.450	-.512	.560	.110	9.97	1.96
71.7	-.350	-.477	.710	.120	12.64	2.14
66.6	-.250	-.441	1.050	.190	18.69	3.38
61.8	-.150	-.406	1.190	.190	21.18	3.38
57.4	-.050	-.371	.920	.130	16.37	2.31
53.2	.050	-.335	.870	.120	15.48	2.14
49.1	.150	-.300	.960	.120	17.08	2.14
45.0	.250	-.265	1.150	.210	20.47	3.74
41.0	.350	-.229	.800	.180	14.24	3.20
34.9	.500	-.177	.610	.180	10.86	3.20
28.4	.650	-.124	.610	.170	10.86	3.03
23.6	.750	-.088	.860	.170	15.30	3.03
18.0	.850	-.053	1.210	.280	21.53	4.98
PLAB= .850 GEV/C, ECM=1.725 GEV, SYS ER=10.0 TEC=C REF=77A1						
82.4	-.550	-.665	.520	.100	7.62	1.47
76.0	-.450	-.622	.540	.100	7.91	1.47
70.4	-.350	-.579	.840	.130	12.31	1.90
65.3	-.250	-.536	1.240	.200	18.17	2.93
60.6	-.150	-.493	.740	.130	10.84	1.90
56.2	-.050	-.450	.850	.110	12.45	1.61
52.0	.050	-.407	.860	.120	12.60	1.76
48.0	.150	-.365	.930	.110	13.63	1.61
44.0	.250	-.322	.930	.170	13.63	2.49
40.1	.350	-.279	1.110	.200	16.26	2.93
34.1	.500	-.214	1.010	.210	14.80	3.08
27.7	.650	-.150	1.400	.240	20.51	3.52
23.0	.750	-.107	.910	.150	13.33	2.20
17.5	.850	-.064	1.010	.210	14.80	3.08
PLAB= .950 GEV/C, ECM=1.772 GEV, SYS ER=10.0 TEC=C REF=77A1						
81.1	-.550	-.786	.350	.060	4.33	.74
74.7	-.450	-.736	.480	.080	5.94	.99
69.1	-.350	-.685	.680	.100	8.42	1.24
64.1	-.250	-.634	.810	.150	10.03	1.86
59.4	-.150	-.584	.600	.090	7.43	1.11
55.1	-.050	-.533	.710	.080	8.79	.99
50.9	.050	-.482	.910	.100	11.27	1.24
46.9	.150	-.431	.970	.100	12.01	1.24
43.0	.250	-.381	.900	.160	11.14	1.98
39.1	.350	-.330	.920	.160	11.39	1.98
33.2	.500	-.254	.900	.170	11.14	2.11
27.0	.650	-.178	1.300	.160	16.10	1.98
22.4	.750	-.127	1.250	.160	15.48	1.98
17.0	.850	-.076	1.150	.180	14.24	2.23
PLAB= 1.050 GEV/C, ECM=1.819 GEV, SYS ER=10.0 TEC=C REF=77A1						
79.9	-.550	-.912	.310	.050	3.31	.53
73.5	-.450	-.853	.380	.060	4.06	.64
67.9	-.350	-.794	.470	.090	5.02	.96
62.9	-.250	-.735	.590	.080	6.30	.85
58.3	-.150	-.676	.520	.070	5.56	.75
54.0	-.050	-.618	.520	.070	5.56	.75
45.9	.150	-.500	.730	.100	7.80	1.07
42.1	.250	-.441	.770	.130	8.23	1.39
38.3	.350	-.382	.640	.120	6.84	1.28
32.5	.500	-.294	.910	.150	9.72	1.60
26.3	.650	-.206	1.460	.170	15.60	1.82
21.8	.750	-.147	1.110	.130	11.86	1.39
16.6	.850	-.088	1.010	.150	10.79	1.60
PLAB= 1.150 GEV/C, ECM=1.865 GEV, SYS ER=20.0 TEC=C REF=77A1						
86.3	-.650	-1.106	.200	.050	1.87	.47
78.7	-.550	-1.039	.270	.050	2.53	.47
72.3	-.450	-.972	.220	.040	2.06	.37

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR

PLAB= 1.150 GEV/C, ECM=1.865 GEV, SYS ER=20.0 TEC=C REF=77A1

66.8	-.350	-.905	.290	.040	2.72	.37
61.8	-.250	-.838	.330	.070	3.09	.66
57.2	-.150	-.771	.360	.050	3.37	.47
52.9	-.050	-.704	.420	.050	3.94	.47
48.9	.050	-.637	.440	.050	4.12	.47
45.0	.150	-.570	.470	.090	4.40	.84
41.2	.250	-.503	.470	.090	4.40	.84
37.4	.350	-.436	.520	.100	4.87	.94
31.7	.500	-.335	.750	.120	7.03	1.12
25.7	.650	-.235	.780	.100	7.31	.94
21.3	.750	-.168	.720	.090	6.75	.84
16.2	.850	-.101	.750	.110	7.03	1.03

PLAB= 1.250 GEV/C, ECM=1.911 GEV, SYS ER=20.0 TEC=C REF=77A1

85.1	-.650	-1.245	.150	.030	1.25	.25
77.5	-.550	-1.169	.200	.030	1.67	.25
71.2	-.450	-1.094	.170	.030	1.42	.25
65.7	-.350	-1.019	.160	.040	1.33	.33
60.7	-.250	-.943	.290	.050	2.42	.42
56.2	-.150	-.868	.210	.030	1.75	.25
51.9	-.050	-.792	.190	.030	1.58	.25
47.9	.050	-.717	.280	.040	2.33	.33
44.1	.150	-.641	.260	.060	2.17	.50
40.3	.250	-.566	.370	.080	3.08	.67
36.6	.350	-.490	.330	.070	2.75	.58
31.0	.500	-.377	.490	.090	4.08	.75
25.1	.650	-.264	.720	.090	6.00	.75
20.8	.750	-.189	.680	.080	5.66	.67
15.8	.850	-.113	.530	.090	4.41	.75

PLAB= 1.350 GEV/C, ECM=1.957 GEV, SYS ER=20.0 TEC=C REF=77A1

83.9	-.650	-1.385	.120	.020	.898	.150
76.4	-.550	-1.301	.160	.020	1.197	.150
70.1	-.450	-1.217	.110	.020	.823	.150
64.6	-.350	-1.133	.100	.030	.748	.225
59.7	-.250	-1.049	.130	.030	.973	.225
55.2	-.150	-.966	.220	.030	1.646	.225
51.0	-.050	-.882	.130	.030	.973	.225
47.0	.050	-.798	.190	.030	1.422	.225
43.2	.150	-.714	.140	.040	1.048	.299
39.5	.250	-.630	.260	.060	1.946	.449
35.9	.350	-.546	.410	.080	3.068	.599
30.4	.500	-.420	.290	.060	2.170	.449
24.6	.650	-.294	.520	.070	3.892	.524
20.4	.750	-.210	.510	.070	3.817	.524
15.5	.850	-.126	.500	.120	3.742	.898

PLAB= 1.450 GEV/C, ECM=2.001 GEV, SYS ER=20.0 TEC=C REF=77A1

82.9	-.650	-1.527	.100	.020	.679	.136
75.3	-.550	-1.435	.130	.020	.882	.136
69.0	-.450	-1.342	.130	.030	.882	.204
63.6	-.350	-1.250	.080	.030	.543	.204
58.7	-.250	-1.157	.060	.010	.407	.068
54.2	-.150	-1.064	.100	.020	.679	.136
50.1	-.050	-.972	.090	.020	.611	.136
46.1	.050	-.879	.110	.020	.747	.136
42.4	.150	-.787	.100	.040	.679	.272
38.7	.250	-.694	.140	.040	.950	.272
35.2	.350	-.602	.260	.060	1.765	.407
29.7	.500	-.463	.380	.070	2.579	.475
24.1	.650	-.324	.420	.060	2.851	.407
19.9	.750	-.231	.520	.080	3.530	.543
15.1	.850	-.139	.370	.110	2.512	.747

THE NUMBER OF DATA POINTS IS = 127
THE TOTAL NUMBER OF DATA CARDS IS = 136
THE NUMBER OF ENERGY DATA IS = 9

KL P = L0 PI+ DIFFERENTIAL CROSS SECTIONS

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR
PLAB= .225 GEV/C, ECM=1.467 GEV, SYS ER=35.0 TEC=HBC REF=66K1						
129.4	-.900	-.134	.620	.200	47.72	15.39
102.3	-.700	-.118	.190	.110	14.62	8.47
86.9	-.500	-.101	.310	.140	23.86	10.77
75.4	-.300	-.085	.430	.160	33.09	12.31
65.6	-.100	-.069	.620	.200	47.72	15.39
56.7	.100	-.052	.690	.210	53.10	16.16
48.1	.300	-.036	.810	.220	62.34	16.93
39.3	.500	-.020	1.610	.320	123.91	24.63
29.5	.700	-.003	2.050	.360	157.77	27.71
16.6	.900	.013	1.430	.300	110.05	23.09
PLAB= .275 GEV/C, ECM=1.482 GEV, SYS ER=25.0 TEC=HBC REF=66K1						
129.0	-.900	-.171	.140	.100	8.53	6.09
101.9	-.700	-.150	.140	.100	8.53	6.09
86.5	-.500	-.130	.360	.160	21.93	9.75
74.9	-.300	-.109	.290	.140	17.67	8.53
65.2	-.100	-.088	.140	.100	8.53	6.09
56.3	.100	-.068	.500	.190	30.46	11.58
47.7	.300	-.047	1.370	.310	83.46	18.89
39.0	.500	-.026	.860	.150	52.39	9.14
29.3	.700	-.006	1.220	.300	74.32	18.28
16.4	.900	.015	.930	.260	56.66	15.84
PLAB= .340 GEV/C, ECM=1.503 GEV, SYS ER=20.0 TEC=HBC REF=66K1						
128.5	-.900	-.225	.120	.070	5.65	3.30
85.8	-.500	-.172	.170	.080	8.00	3.77
74.2	-.300	-.145	.170	.080	8.00	3.77
67.8	-.170	-.128	.250	.100	11.77	4.71
64.5	-.100	-.118	.370	.120	17.42	5.65
55.7	.100	-.092	.080	.060	3.77	2.82
47.2	.300	-.065	.460	.140	21.66	6.59
38.5	.500	-.038	.420	.130	19.77	6.12
28.9	.700	-.012	1.040	.210	48.96	9.89
16.2	.900	.015	.750	.180	35.31	8.47
PLAB= .460 GEV/C, ECM=1.549 GEV, SYS ER=15.0 TEC=HBC REF=66K1						
127.2	-.900	-.342	.040	.040	1.28	1.28
91.3	-.600	-.283	.310	.120	9.92	3.84
84.3	-.500	-.264	.040	.040	1.28	1.28
72.8	-.300	-.224	.040	.040	1.28	1.28
63.2	-.100	-.185	.130	.080	4.16	2.56
54.4	.100	-.146	.270	.110	8.64	3.52
46.0	.300	-.106	.220	.100	7.04	3.20
37.5	.500	-.067	.220	.100	7.04	3.20
28.1	.700	-.028	.530	.150	16.95	4.80
15.7	.900	.011	.890	.200	28.47	6.40
PLAB= .462 GEV/C, ECM=1.550 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
117.9	-.850	-.334	.067	.022	2.13	.70
104.8	-.750	-.315	.076	.023	2.42	.73
95.3	-.650	-.295	.103	.028	3.28	.89
87.6	-.550	-.275	.134	.032	4.26	1.02
81.2	-.450	-.255	.087	.025	2.77	.80
75.4	-.350	-.236	.136	.032	4.33	1.02
70.3	-.250	-.216	.136	.032	4.33	1.02
65.4	-.150	-.196	.137	.033	4.36	1.05
60.9	-.050	-.176	.235	.042	7.47	1.34
56.5	.050	-.157	.224	.041	7.12	1.30
52.3	.150	-.137	.242	.044	7.70	1.40
48.1	.250	-.117	.243	.044	7.73	1.40
43.9	.350	-.097	.324	.051	10.30	1.62
39.6	.450	-.078	.278	.047	8.84	1.49
35.2	.550	-.058	.411	.059	13.07	1.88
30.6	.650	-.038	.475	.066	15.11	2.10
25.4	.750	-.018	.590	.079	18.76	2.51
19.4	.850	.001	.713	.110	22.68	3.50
PLAB= .498 GEV/C, ECM=1.565 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
140.5	-.950	-.394	.057	.019	1.64	.55
117.4	-.850	-.372	.097	.025	2.79	.72
104.3	-.750	-.350	.105	.026	3.02	.75
94.8	-.650	-.329	.104	.026	3.00	.75
87.2	-.550	-.307	.098	.025	2.82	.72
80.7	-.450	-.285	.120	.028	3.46	.81
75.0	-.350	-.263	.116	.028	3.34	.81
69.8	-.250	-.241	.087	.024	2.51	.69
65.0	-.150	-.220	.116	.028	3.34	.81
60.5	-.050	-.198	.118	.029	3.40	.84
56.1	.050	-.176	.198	.037	5.70	1.07
51.9	.150	-.154	.224	.040	6.45	1.15

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR
PLAB= .498 GEV/C, ECM=1.565 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
47.7	.250	-.132	.271	.044	7.80	1.27
43.5	.350	-.110	.289	.046	8.32	1.32
39.3	.450	-.089	.236	.041	6.80	1.18
34.9	.550	-.067	.485	.060	13.97	1.73
30.3	.650	-.045	.535	.065	15.41	1.87
25.2	.750	-.023	.522	.068	15.03	1.96
19.2	.850	-.001	.524	.083	15.09	2.39
PLAB= .521 GEV/C, ECM=1.575 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
140.3	-.950	-.420	.054	.018	1.46	.49
117.2	-.850	-.397	.111	.026	3.01	.71
104.0	-.750	-.374	.118	.027	3.20	.73
94.5	-.650	-.351	.127	.028	3.44	.76
86.9	-.550	-.328	.078	.022	2.12	.60
80.4	-.450	-.305	.084	.023	2.28	.62
74.7	-.350	-.281	.137	.029	3.72	.79
69.5	-.250	-.258	.145	.030	3.93	.81
64.7	-.150	-.235	.157	.032	4.26	.87
60.2	-.050	-.212	.185	.035	5.02	.95
55.8	.050	-.189	.178	.034	4.83	.92
51.6	.150	-.166	.219	.038	5.94	1.03
47.5	.250	-.142	.157	.032	4.26	.87
43.3	.350	-.119	.194	.036	5.26	.98
39.1	.450	-.096	.293	.045	7.95	1.22
34.7	.550	-.073	.412	.053	11.17	1.44
30.1	.650	-.050	.377	.051	10.22	1.38
25.1	.750	-.026	.476	.061	12.91	1.65
19.1	.850	-.003	.539	.078	14.62	2.12
PLAB= .544 GEV/C, ECM=1.585 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
140.0	-.950	-.447	.102	.022	2.61	.56
116.9	-.850	-.423	.089	.020	2.28	.51
103.7	-.750	-.398	.082	.019	2.10	.49
94.2	-.650	-.374	.076	.019	1.94	.49
86.6	-.550	-.349	.086	.020	2.20	.51
80.1	-.450	-.325	.138	.025	3.53	.64
74.4	-.350	-.300	.106	.022	2.71	.56
69.2	-.250	-.275	.119	.024	3.05	.61
64.4	-.150	-.251	.153	.027	3.92	.69
59.9	-.050	-.226	.149	.027	3.81	.69
55.6	.050	-.202	.154	.027	3.94	.69
51.4	.150	-.177	.164	.028	4.20	.72
47.2	.250	-.153	.234	.034	5.99	.87
43.1	.350	-.128	.210	.032	5.37	.82
38.9	.450	-.104	.271	.037	6.94	.95
34.5	.550	-.079	.266	.037	6.81	.95
29.9	.650	-.054	.411	.046	10.52	1.18
24.9	.750	-.030	.395	.048	10.11	1.23
19.0	.850	-.005	.582	.069	14.89	1.77
PLAB= .550 GEV/C, ECM=1.587 GEV, SYS ER=10.0 TEC=HBC REF=76C1						
140.0	-.950	-.454	.086	.009	2.17	.23
116.8	-.850	-.430	.110	.009	2.77	.23
103.6	-.750	-.405	.099	.009	2.50	.23
94.1	-.650	-.380	.135	.009	3.40	.23
86.5	-.550	-.355	.135	.009	3.40	.23
80.0	-.450	-.330	.136	.009	3.43	.23
74.3	-.350	-.305	.109	.009	2.75	.23
69.1	-.250	-.280	.137	.009	3.45	.23
64.3	-.150	-.255	.105	.009	2.65	.23
59.8	-.050	-.230	.118	.009	2.98	.23
55.5	.050	-.205	.154	.014	3.88	.35
51.3	.150	-.180	.155	.014	3.91	.35
47.2	.250	-.155	.222	.018	5.60	.45
43.0	.350	-.131	.227	.018	5.72	.45
38.8	.450	-.106	.277	.018	6.99	.45
34.5	.550	-.081	.282	.018	7.11	.45
29.9	.650	-.056	.355	.027	8.95	.68
24.9	.750	-.031	.391	.027	9.86	.68
19.0	.850	-.006	.455	.036	11.47	.91
PLAB= .550 GEV/C, ECM=1.587 GEV, SYS ER=10.0 TEC=HBC REF=78E1						
140.0	-.950	-.454	.090	.010	2.27	.25
116.8	-.850	-.430	.110	.010	2.77	.25
103.6	-.750	-.405	.100	.010	2.52	.25
94.1	-.650	-.380	.130	.010	3.28	.25
86.5	-.550	-.355	.130	.010	3.28	.25
80.0	-.450	-.330	.130	.020	3.28	.50
74.3	-.350	-.305	.100	.010	2.52	.25
69.1	-.250	-.280	.110	.010	2.77	.25
64.3	-.150	-.255	.110	.010	2.77	.25
59.8	-.050	-.230	.120	.010	3.03	.25
55.5	.050	-.205	.150	.020	3.78	.50
51.3	.150	-.180	.170	.020	4.29	.50

KL P = L0 PI+ DIFFERENTIAL CROSS SECTIONS

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR
PLAB= .550 GEV/C, ECM=1.587 GEV, SYS ER=10.0 TEC=HBC REF=78E1						
47.2	.250	-.155	.200	.020	5.04	.50
43.0	.350	-.131	.220	.020	5.55	.50
38.8	.450	-.106	.250	.020	6.30	.50
34.5	.550	-.081	.270	.020	6.81	.50
29.9	.650	-.056	.330	.030	8.32	.76
24.9	.750	-.031	.360	.030	9.08	.76
19.0	.850	-.006	.420	.040	10.59	1.01
PLAB= .567 GEV/C, ECM=1.595 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
139.8	-.950	-.475	.059	.017	1.43	.41
116.6	-.850	-.449	.089	.020	2.15	.48
103.4	-.750	-.423	.091	.021	2.20	.51
93.9	-.650	-.397	.085	.020	2.06	.48
86.2	-.550	-.371	.148	.027	3.58	.65
79.8	-.450	-.345	.116	.024	2.81	.58
74.1	-.350	-.319	.067	.018	1.62	.44
68.9	-.250	-.293	.128	.025	3.10	.61
64.1	-.150	-.267	.126	.025	3.05	.61
59.6	-.050	-.241	.114	.024	2.76	.58
55.3	.050	-.215	.112	.024	2.71	.58
51.1	.150	-.189	.124	.025	3.00	.61
47.0	.250	-.163	.151	.028	3.65	.68
42.8	.350	-.137	.207	.033	5.01	.80
38.7	.450	-.111	.181	.031	4.38	.75
34.3	.550	-.085	.312	.041	7.55	.99
29.8	.650	-.059	.381	.045	9.22	1.09
24.8	.750	-.033	.346	.046	8.37	1.11
18.9	.850	-.008	.591	.069	14.30	1.67
PLAB= .590 GEV/C, ECM=1.605 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
139.6	-.950	-.503	.095	.023	2.18	.53
116.3	-.850	-.475	.190	.033	4.36	.76
103.1	-.750	-.448	.192	.033	4.40	.76
93.6	-.650	-.421	.166	.031	3.81	.71
85.9	-.550	-.393	.196	.034	4.50	.78
79.5	-.450	-.366	.163	.031	3.74	.71
73.8	-.350	-.339	.122	.027	2.80	.62
68.6	-.250	-.311	.103	.024	2.36	.55
63.8	-.150	-.284	.131	.028	3.00	.64
59.3	-.050	-.256	.079	.022	1.81	.50
55.0	.050	-.229	.127	.028	2.91	.64
50.8	.150	-.202	.122	.028	2.80	.64
46.7	.250	-.174	.169	.032	3.88	.73
42.6	.350	-.147	.191	.035	4.38	.80
38.4	.450	-.119	.183	.034	4.20	.78
34.1	.550	-.092	.305	.044	7.00	1.01
29.6	.650	-.065	.338	.047	7.75	1.08
24.6	.750	-.037	.327	.048	7.50	1.10
18.8	.850	-.010	.391	.060	8.97	1.38
PLAB= .623 GEV/C, ECM=1.620 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
139.3	-.950	-.544	.095	.019	2.02	.40
115.9	-.850	-.515	.160	.025	3.41	.53
102.6	-.750	-.485	.162	.025	3.45	.53
93.1	-.650	-.456	.203	.028	4.32	.60
85.5	-.550	-.426	.143	.024	3.05	.51
79.0	-.450	-.397	.116	.022	2.47	.47
73.3	-.350	-.367	.123	.022	2.62	.47
68.2	-.250	-.338	.157	.025	3.34	.53
63.4	-.150	-.308	.095	.019	2.02	.40
58.9	-.050	-.279	.122	.022	2.60	.47
54.6	.050	-.249	.142	.024	3.02	.51
50.5	.150	-.220	.118	.022	2.51	.47
46.4	.250	-.190	.167	.026	3.56	.55
42.3	.350	-.161	.141	.024	3.00	.51
38.1	.450	-.131	.170	.027	3.62	.58
33.9	.550	-.102	.190	.028	4.05	.60
29.3	.650	-.072	.311	.037	6.63	.79
24.4	.750	-.043	.328	.038	6.99	.81
18.6	.850	-.013	.484	.054	10.31	1.15
PLAB= .634 GEV/C, ECM=1.625 GEV, SYS ER=15.0 TEC=HBC REF=75B1						
139.2	-.950	-.558	.309	.035	6.43	.73
115.7	-.850	-.528	.234	.030	4.86	.62
102.5	-.750	-.498	.242	.025	5.02	.52
93.0	-.650	-.467	.272	.028	5.65	.57
85.3	-.550	-.437	.106	.020	2.19	.42
78.9	-.450	-.407	.125	.022	2.59	.45
73.2	-.350	-.377	.061	.016	1.26	.33
68.1	-.250	-.347	.051	.015	1.05	.31
63.3	-.150	-.316	.097	.022	2.02	.46
58.8	-.050	-.286	.090	.020	1.87	.42
54.5	.050	-.256	.134	.020	2.79	.42
50.3	.150	-.226	.168	.025	3.48	.52

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR
PLAB= .634 GEV/C, ECM=1.625 GEV, SYS ER=15.0 TEC=HBC REF=75B1						
46.3	.250	-.195	.153	.020	3.17	.42
42.2	.350	-.165	.106	.020	2.19	.42
38.0	.450	-.135	.076	.020	1.58	.42
33.8	.550	-.105	.201	.025	4.18	.52
29.3	.650	-.075	.252	.032	5.24	.67
24.3	.750	-.044	.360	.036	7.48	.75
18.5	.850	-.014	.468	.039	9.73	.81
10.5	.950	.016	.539	.035	11.21	.73
PLAB= .645 GEV/C, ECM=1.630 GEV, SYS ER= 5.0 TEC=HBC REF=79C2						
139.1	-.950	-.572	.185	.049	3.76	1.00
115.6	-.850	-.541	.292	.062	5.93	1.26
102.4	-.750	-.510	.249	.052	5.06	1.06
92.8	-.650	-.479	.189	.043	3.84	.87
85.2	-.550	-.448	.224	.048	4.55	.98
78.7	-.450	-.417	.167	.040	3.39	.81
73.1	-.350	-.386	.138	.037	2.80	.75
67.9	-.250	-.356	.142	.040	2.89	.81
63.2	-.150	-.325	.105	.032	2.13	.65
58.7	-.050	-.294	.076	.025	1.54	.51
54.4	.050	-.263	.122	.033	2.48	.67
50.2	.150	-.232	.089	.028	1.81	.57
46.1	.250	-.201	.123	.034	2.50	.69
42.1	.350	-.170	.097	.031	1.97	.63
37.9	.450	-.139	.163	.040	3.31	.81
33.7	.550	-.108	.195	.044	3.96	.89
29.2	.650	-.077	.376	.063	7.64	1.28
24.2	.750	-.046	.224	.049	4.55	1.00
18.5	.850	-.015	.418	.078	8.49	1.58
PLAB= .656 GEV/C, ECM=1.635 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
138.9	-.950	-.586	.107	.023	2.12	.46
115.5	-.850	-.555	.188	.030	3.73	.60
102.2	-.750	-.523	.205	.032	4.07	.64
92.7	-.650	-.491	.227	.034	4.51	.68
85.0	-.550	-.460	.212	.032	4.21	.64
78.6	-.450	-.428	.235	.034	4.67	.68
72.9	-.350	-.396	.156	.028	3.10	.56
67.8	-.250	-.365	.173	.030	3.44	.60
63.0	-.150	-.333	.128	.026	2.54	.52
58.5	-.050	-.301	.095	.022	1.89	.44
54.3	.050	-.270	.115	.025	2.28	.50
50.1	.150	-.238	.111	.024	2.20	.48
46.0	.250	-.206	.111	.024	2.20	.48
42.0	.350	-.175	.117	.025	2.32	.50
37.8	.450	-.143	.180	.031	3.57	.62
33.6	.550	-.112	.191	.032	3.79	.64
29.1	.650	-.080	.246	.037	4.88	.73
24.2	.750	-.048	.292	.041	5.80	.81
18.4	.850	-.017	.334	.049	6.63	.97
PLAB= .678 GEV/C, ECM=1.645 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
138.7	-.950	-.615	.241	.036	4.57	.68
115.2	-.850	-.582	.241	.035	4.57	.66
101.9	-.750	-.549	.251	.036	4.76	.68
92.4	-.650	-.515	.190	.032	3.61	.61
84.7	-.550	-.482	.210	.034	3.99	.65
78.3	-.450	-.449	.172	.031	3.26	.59
72.6	-.350	-.416	.197	.033	3.74	.63
67.5	-.250	-.383	.150	.029	2.85	.55
62.7	-.150	-.350	.112	.025	2.13	.47
58.3	-.050	-.317	.128	.027	2.43	.51
54.0	.050	-.284	.099	.024	1.88	.46
49.9	.150	-.251	.110	.025	2.09	.47
45.8	.250	-.218	.096	.024	1.82	.46
41.7	.350	-.184	.143	.029	2.71	.55
37.6	.450	-.151	.158	.031	3.00	.59
33.4	.550	-.118	.192	.034	3.64	.65
28.9	.650	-.085	.223	.036	4.23	.68
24.0	.750	-.052	.264	.040	5.01	.76
18.3	.850	-.019	.419	.057	7.95	1.08
PLAB= .699 GEV/C, ECM=1.655 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
138.5	-.950	-.642	.254	.039	4.62	.71
114.9	-.850	-.608	.256	.039	4.66	.71
101.6	-.750	-.573	.192	.035	3.50	.64
92.1	-.650	-.539	.192	.035	3.50	.64
84.5	-.550	-.504	.193	.034	3.51	.62
78.0	-.450	-.470	.191	.035	3.48	.64
72.3	-.350	-.435	.171	.033	3.11	.60
67.2	-.250	-.401	.106	.026	1.93	.47
62.5	-.150	-.366	.162	.032	2.95	.58
58.0	-.050	-.332	.118	.028	2.15	.51
53.7	.050	-.297	.052	.019	.95	.35

KL P = L0 PI+ DIFFERENTIAL CROSS SECTIONS

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR
PLAB= .699 GEV/C, ECM=1.655 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
49.6	.150	-.263	.081	.023	1.47	.42
45.6	.250	-.228	.092	.025	1.67	.46
41.5	.350	-.194	.065	.021	1.18	.38
37.4	.450	-.159	.131	.030	2.38	.55
33.2	.550	-.125	.196	.037	3.57	.67
28.8	.650	-.090	.276	.043	5.02	.78
23.9	.750	-.056	.346	.049	6.30	.89
18.2	.850	-.021	.386	.058	7.03	1.06
PLAB= .737 GEV/C, ECM=1.672 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
138.1	-.950	-.693	.330	.031	5.59	.52
114.4	-.850	-.656	.324	.031	5.49	.52
101.1	-.750	-.619	.279	.028	4.72	.47
91.6	-.650	-.582	.245	.027	4.15	.46
83.9	-.550	-.545	.184	.023	3.12	.39
77.5	-.450	-.508	.184	.023	3.12	.39
71.8	-.350	-.471	.142	.020	2.40	.34
66.7	-.250	-.434	.113	.019	1.91	.32
62.0	-.150	-.397	.102	.018	1.73	.30
57.6	-.050	-.360	.097	.017	1.64	.29
53.3	.050	-.322	.067	.014	1.13	.24
49.2	.150	-.285	.056	.013	.95	.22
45.2	.250	-.248	.076	.015	1.29	.25
41.1	.350	-.211	.075	.016	1.27	.27
37.1	.450	-.174	.117	.019	1.98	.32
32.9	.550	-.137	.187	.025	3.17	.42
28.5	.650	-.100	.256	.029	4.33	.49
23.7	.750	-.063	.372	.035	6.30	.59
18.0	.850	-.026	.467	.043	7.91	.73
PLAB= .737 GEV/C, ECM=1.672 GEV, SYS ER= 5.0 TEC=HBC REF=79C2						
138.1	-.950	-.693	.400	.078	6.77	1.32
114.4	-.850	-.656	.453	.079	7.67	1.34
101.1	-.750	-.619	.464	.078	7.86	1.32
91.6	-.650	-.582	.262	.056	4.44	.95
83.9	-.550	-.545	.119	.036	2.01	.61
77.5	-.450	-.508	.169	.043	2.86	.73
71.8	-.350	-.471	.118	.036	2.00	.61
66.7	-.250	-.434	.108	.034	1.83	.58
62.0	-.150	-.397	.070	.027	1.19	.46
57.6	-.050	-.360	.069	.028	1.17	.47
53.3	.050	-.322	.061	.025	1.03	.42
49.2	.150	-.285	.052	.023	.88	.39
45.2	.250	-.248	.116	.033	1.96	.56
41.1	.350	-.211	.153	.039	2.59	.66
37.1	.450	-.174	.100	.032	1.69	.54
32.9	.550	-.137	.204	.047	3.45	.80
28.5	.650	-.100	.212	.047	3.59	.80
23.7	.750	-.063	.248	.054	4.20	.91
18.0	.850	-.026	.612	.097	10.36	1.64
PLAB= .791 GEV/C, ECM=1.698 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
137.6	-.950	-.768	.581	.048	8.93	.74
113.7	-.850	-.727	.401	.040	6.16	.61
100.4	-.750	-.686	.337	.037	5.18	.57
90.8	-.650	-.645	.295	.034	4.53	.52
83.2	-.550	-.604	.198	.028	3.04	.43
76.8	-.450	-.563	.180	.027	2.77	.41
71.1	-.350	-.522	.119	.022	1.83	.34
66.0	-.250	-.482	.127	.023	1.95	.35
61.3	-.150	-.441	.086	.019	1.32	.29
56.9	-.050	-.400	.060	.016	.92	.25
52.7	.050	-.359	.049	.014	.75	.22
48.6	.150	-.318	.051	.015	.78	.23
44.6	.250	-.277	.021	.010	.32	.15
40.6	.350	-.236	.055	.015	.85	.23
36.6	.450	-.195	.131	.024	2.01	.37
32.5	.550	-.154	.165	.027	2.54	.41
28.1	.650	-.114	.257	.034	3.95	.52
23.3	.750	-.073	.442	.045	6.79	.69
17.8	.850	-.032	.582	.054	8.94	.83
PLAB= .812 GEV/C, ECM=1.707 GEV, SYS ER= 5.0 TEC=HBC REF=79C2						
137.4	-.950	-.797	.667	.086	9.89	1.28
113.5	-.850	-.755	.547	.070	8.11	1.04
100.1	-.750	-.712	.367	.049	5.44	.73
90.6	-.650	-.670	.402	.051	5.96	.76
82.9	-.550	-.628	.208	.036	3.08	.53
76.5	-.450	-.585	.207	.036	3.07	.53
70.9	-.350	-.543	.103	.025	1.53	.37
65.8	-.250	-.500	.179	.033	2.65	.49
61.1	-.150	-.458	.116	.026	1.72	.39
56.7	-.050	-.416	.092	.024	1.36	.36
52.4	.050	-.373	.048	.016	.71	.24

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR
PLAB= .812 GEV/C, ECM=1.707 GEV, SYS ER= 5.0 TEC=HBC REF=79C2						
48.4	.150	-.331	.035	.028	.52	.42
44.4	.250	-.289	.044	.016	.65	.24
40.4	.350	-.246	.047	.018	.70	.27
36.4	.450	-.204	.086	.023	1.28	.34
32.3	.550	-.161	.095	.023	1.41	.34
28.0	.650	-.119	.168	.031	2.49	.46
23.2	.750	-.077	.394	.050	5.84	.74
17.7	.850	-.034	.530	.066	7.86	.98
PLAB= .887 GEV/C, ECM=1.743 GEV, SYS ER= 5.0 TEC=HBC REF=79C2						
136.7	-.950	-.904	.976	.124	12.82	1.63
112.5	-.850	-.856	.699	.083	9.18	1.09
99.1	-.750	-.809	.461	.058	6.06	.76
89.6	-.650	-.761	.350	.046	4.60	.60
82.0	-.550	-.713	.236	.039	3.10	.51
75.5	-.450	-.665	.201	.035	2.64	.46
69.9	-.350	-.617	.192	.035	2.52	.46
64.8	-.250	-.569	.209	.035	2.75	.46
60.2	-.150	-.522	.230	.037	3.02	.49
55.8	-.050	-.474	.133	.028	1.75	.37
51.6	.050	-.426	.110	.025	1.45	.33
47.6	.150	-.378	.132	.028	1.73	.37
43.6	.250	-.330	.052	.017	.68	.22
39.7	.350	-.283	.066	.020	.87	.26
35.8	.450	-.235	.058	.018	.76	.24
31.7	.550	-.187	.093	.024	1.22	.32
27.4	.650	-.139	.172	.032	2.26	.42
22.8	.750	-.091	.403	.051	5.29	.67
17.3	.850	-.043	.411	.056	5.40	.74
PLAB= .902 GEV/C, ECM=1.750 GEV, SYS ER=15.0 TEC=HBC REF=75B1						
136.5	-.950	-.926	.536	.039	6.88	.50
112.4	-.850	-.877	.299	.030	3.83	.39
98.9	-.750	-.828	.341	.030	4.38	.39
89.4	-.650	-.779	.274	.027	3.51	.34
81.8	-.550	-.730	.186	.022	2.39	.28
75.4	-.450	-.681	.161	.022	2.06	.28
69.7	-.350	-.632	.119	.018	1.52	.22
64.7	-.250	-.584	.173	.020	2.21	.26
60.0	-.150	-.535	.100	.017	1.28	.21
55.6	-.050	-.486	.178	.022	2.29	.28
51.4	.050	-.437	.124	.020	1.59	.26
47.4	.150	-.388	.086	.016	1.10	.21
43.5	.250	-.339	.099	.015	1.26	.19
39.6	.350	-.290	.093	.015	1.19	.19
35.6	.450	-.241	.085	.015	1.08	.19
31.6	.550	-.192	.116	.020	1.48	.26
27.3	.650	-.143	.240	.025	3.08	.32
22.7	.750	-.094	.290	.028	3.72	.36
17.3	.850	-.045	.394	.033	5.06	.42
9.8	.950	.004	.632	.038	8.11	.48
PLAB= .956 GEV/C, ECM=1.775 GEV, SYS ER= 5.0 TEC=HBC REF=79C2						
136.0	-.950	-1.006	.610	.089	7.24	1.06
111.7	-.850	-.953	.635	.082	7.53	.97
98.3	-.750	-.900	.420	.056	4.98	.66
88.7	-.650	-.847	.299	.047	3.55	.56
81.1	-.550	-.794	.211	.038	2.50	.45
74.7	-.450	-.741	.269	.043	3.19	.51
69.1	-.350	-.688	.219	.039	2.60	.46
64.0	-.250	-.635	.228	.038	2.70	.45
59.4	-.150	-.582	.157	.031	1.86	.37
55.0	-.050	-.529	.159	.032	1.89	.38
50.9	.050	-.476	.216	.037	2.56	.44
46.9	.150	-.423	.190	.035	2.25	.42
43.0	.250	-.370	.174	.034	2.06	.40
39.1	.350	-.317	.145	.031	1.72	.37
35.2	.450	-.264	.174	.034	2.06	.40
31.2	.550	-.211	.189	.035	2.24	.42
27.0	.650	-.158	.268	.042	3.18	.50
22.4	.750	-.105	.345	.050	4.09	.59
17.0	.850	-.052	.435	.059	5.16	.70
PLAB= 1.020 GEV/C, ECM=1.805 GEV, SYS ER= 5.0 TEC=HBC REF=79C2						
135.4	-.950	-1.101	.430	.072	4.67	.78
110.9	-.850	-1.044	.273	.048	2.96	.52
97.4	-.750	-.986	.255	.045	2.77	.49
87.9	-.650	-.928	.168	.035	1.82	.38
80.3	-.550	-.870	.160	.035	1.74	.38
73.9	-.450	-.812	.129	.030	1.40	.33
68.3	-.350	-.754	.109	.027	1.18	.29
63.3	-.250	-.696	.156	.033	1.69	.36
58.6	-.150	-.639	.128	.029	1.39	.31
54.3	-.050	-.581	.158	.033	1.72	.36

KL P = L0 PI+ DIFFERENTIAL CROSS SECTIONS

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR
PLAB= 1.020 GEV/C, ECM=1.805 GEV, SYS ER= 5.0 TEC=HBC REF=79C2						
50.2	.050	-.523	.163	.033	1.77	.36
46.2	.150	-.465	.151	.032	1.75	.35
42.4	.250	-.407	.221	.038	2.40	.41
38.5	.350	-.349	.256	.041	2.78	.45
34.7	.450	-.291	.335	.040	3.64	.43
30.7	.550	-.234	.318	.047	3.45	.51
26.5	.650	-.176	.373	.052	4.05	.56
22.0	.750	-.118	.418	.056	4.54	.61
16.7	.850	-.060	.317	.050	3.44	.54
PLAB= 1.084 GEV/C, ECM=1.835 GEV, SYS ER= 5.0 TEC=HBC REF=79C2						
134.7	-.950	-1.199	.154	.042	1.54	.42
110.1	-.850	-1.136	.136	.036	1.36	.36
96.7	-.750	-1.073	.075	.025	.75	.25
87.1	-.650	-1.011	.102	.029	1.02	.29
79.5	-.550	-.948	.087	.028	.87	.28
73.1	-.450	-.885	.026	.015	.26	.15
67.5	-.350	-.822	.094	.027	.94	.27
62.5	-.250	-.759	.065	.023	.65	.23
57.9	-.150	-.696	.145	.033	1.45	.33
53.6	-.050	-.634	.141	.033	1.41	.33
49.5	.050	-.571	.122	.032	1.22	.32
45.6	.150	-.508	.186	.039	1.86	.39
41.8	.250	-.445	.173	.038	1.73	.38
38.0	.350	-.382	.231	.043	2.31	.43
34.1	.450	-.320	.318	.051	3.18	.51
30.2	.550	-.257	.330	.051	3.30	.51
26.1	.650	-.194	.283	.048	2.83	.48
21.7	.750	-.131	.337	.054	3.37	.54
16.5	.850	-.068	.336	.055	3.36	.55
PLAB= 1.144 GEV/C, ECM=1.863 GEV, SYS ER= 5.0 TEC=HBC REF=79C2						
134.2	-.950	-1.292	.050	.026	.47	.24
109.4	-.850	-1.224	.092	.035	.86	.33
95.9	-.750	-1.157	.075	.031	.70	.29
86.3	-.650	-1.089	.069	.028	.64	.26
78.8	-.550	-1.022	.051	.026	.47	.24
72.4	-.450	-.954	.047	.024	.44	.22
66.8	-.350	-.887	.059	.026	.55	.24
61.8	-.250	-.819	.086	.030	.80	.28
57.3	-.150	-.752	.093	.031	.87	.29
53.0	-.050	-.684	.031	.018	.29	.17
48.9	.050	-.616	.106	.034	.99	.32
45.0	.150	-.549	.122	.037	1.13	.34
41.2	.250	-.481	.181	.044	1.68	.41
37.5	.350	-.414	.203	.047	1.89	.44
33.7	.450	-.346	.203	.047	1.89	.44
29.8	.550	-.279	.355	.063	3.30	.59
25.8	.650	-.211	.290	.057	2.70	.53
21.4	.750	-.144	.299	.058	2.78	.54
16.2	.850	-.076	.306	.062	2.85	.58
PLAB= 1.171 GEV/C, ECM=1.875 GEV, SYS ER=15.0 TEC=HBC REF=75B1						
133.9	-.950	-1.334	.075	.010	.68	.09
109.1	-.850	-1.264	.079	.010	.71	.09
95.6	-.750	-1.195	.054	.010	.48	.09
86.0	-.650	-1.125	.044	.010	.39	.09
78.4	-.550	-1.055	.043	.008	.39	.07
72.1	-.450	-.986	.053	.008	.48	.07
66.5	-.350	-.916	.068	.010	.61	.09
61.6	-.250	-.846	.059	.010	.53	.09
57.0	-.150	-.777	.041	.008	.37	.07
52.7	-.050	-.707	.061	.009	.55	.08
48.7	.050	-.637	.074	.010	.66	.09
44.8	.150	-.568	.085	.012	.77	.10
41.0	.250	-.498	.177	.015	1.59	.14
37.2	.350	-.428	.156	.015	1.40	.14
33.5	.450	-.358	.216	.018	1.95	.16
29.6	.550	-.289	.197	.017	1.77	.15
25.6	.650	-.219	.224	.018	2.02	.16
21.2	.750	-.149	.220	.018	1.98	.16
16.1	.850	-.080	.256	.020	2.30	.18
9.1	.950	-.010	.238	.013	2.15	.12
PLAB= 1.209 GEV/C, ECM=1.892 GEV, SYS ER= 5.0 TEC=HBC REF=79C2						
133.6	-.950	-1.394	.010	.010	.09	.09
108.7	-.850	-1.321	.144	.042	1.24	.36
95.2	-.750	-1.248	.176	.047	1.52	.41
85.6	-.650	-1.176	.063	.026	.54	.22
78.0	-.550	-1.103	.012	.012	.10	.10
71.6	-.450	-1.030	.012	.012	.10	.10
66.1	-.350	-.957	.010	.010	.09	.09
61.1	-.250	-.885	.044	.022	.38	.19
56.6	-.150	-.812	.015	.015	.13	.13

KL P = L0 PI+ DIFFERENTIAL CROSS SECTIONS

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR
PLAB= 1.209 GEV/C, ECM=1.892 GEV, SYS ER= 5.0 TEC=HBC REF=79C2						
52.3	-.050	-.739	.060	.025	.52	.22
48.3	.050	-.667	.076	.029	.66	.25
44.4	.150	-.594	.109	.033	.94	.29
40.7	.250	-.521	.140	.039	1.21	.34
36.9	.350	-.448	.169	.041	1.46	.35
33.2	.450	-.376	.172	.040	1.49	.35
29.4	.550	-.303	.235	.049	2.03	.42
25.4	.650	-.230	.291	.056	2.51	.48
21.0	.750	-.157	.332	.060	2.87	.52
16.0	.850	-.085	.261	.054	2.25	.47
PLAB= 1.504 GEV/C, ECM=2.025 GEV, SYS ER=15.0 TEC=HBC REF=75B1						
130.9	-.950	-1.871	.1250	.0120	.8094	.0777
105.5	-.850	-1.774	.0440	.0080	.2849	.0518
91.9	-.750	-1.677	.0465	.0075	.3011	.0486
82.3	-.650	-1.580	.0335	.0075	.2169	.0486
74.8	-.550	-1.483	.0845	.0100	.5472	.0648
68.5	-.450	-1.386	.0905	.0100	.5860	.0648
63.0	-.350	-1.289	.1330	.0130	.8612	.0842
58.2	-.250	-1.191	.0415	.0075	.2687	.0486
53.7	-.150	-1.094	.0385	.0075	.2493	.0486
49.6	-.050	-.997	.0530	.0090	.4080	.0583
45.7	.050	-.900	.0600	.0085	.3885	.0550
42.0	.150	-.803	.0800	.0100	.5180	.0648
38.3	.250	-.706	.0665	.0095	.4306	.0615
34.8	.350	-.609	.0905	.0110	.5860	.0712
31.2	.450	-.512	.1010	.0115	.6540	.0745
27.6	.550	-.415	.0955	.0115	.6184	.0745
23.8	.650	-.318	.1235	.0125	.7997	.0809
19.7	.750	-.221	.0625	.0105	.4047	.0680
15.0	.850	-.124	.1560	.0150	1.0102	.0971
8.5	.950	-.027	.2000	.0160	1.2951	.1036
PLAB= 1.914 GEV/C, ECM=2.200 GEV, SYS ER=15.0 TEC=HBC REF=75B1						
127.6	-.950	-2.559	.0155	.0030	.0737	.0143
101.6	-.850	-2.427	.0245	.0035	.1165	.0166
87.8	-.750	-2.295	.0265	.0040	.1260	.0190
78.3	-.650	-2.163	.0110	.0030	.0523	.0143
70.9	-.550	-2.031	.0245	.0040	.1165	.0190
64.7	-.450	-1.898	.0200	.0040	.0951	.0190
59.4	-.350	-1.766	.0535	.0065	.2543	.0309
54.6	-.250	-1.634	.0560	.0065	.2662	.0309
50.3	-.150	-1.502	.0350	.0060	.1664	.0285
46.4	-.050	-1.370	.0320	.0050	.1521	.0238
42.6	.050	-1.238	.0270	.0050	.1284	.0238
39.1	.150	-1.105	.0400	.0060	.1902	.0285
35.6	.250	-.973	.0740	.0075	.3518	.0357
32.3	.350	-.841	.0500	.0070	.2377	.0333
28.9	.450	-.709	.0510	.0075	.2424	.0357
25.5	.550	-.577	.0370	.0060	.1759	.0285
22.0	.650	-.445	.0310	.0050	.1474	.0238
18.2	.750	-.312	.0510	.0070	.2424	.0333
13.8	.850	-.180	.0560	.0080	.2662	.0380
7.8	.950	-.048	.1290	.0120	.6132	.0570
PLAB= 2.000 GEV/C, ECM=2.235 GEV, SYS ER=15.0 TEC=HBC REF=74Y1						
126.9	-.950	-2.706	.0520	.0130	.2339	.0585
96.0	-.820	-2.525	.0560	.0110	.2519	.0495
75.1	-.620	-2.245	.0470	.0080	.2114	.0360
58.7	-.350	-1.868	.1010	.0100	.4543	.0450
43.9	0.000	-1.379	.0850	.0080	.3823	.0360
31.8	.350	-.890	.0910	.0090	.4093	.0405
23.4	.600	-.541	.1070	.0110	.4813	.0495
17.9	.750	-.332	.1060	.0150	.4768	.0675
13.6	.850	-.192	.1750	.0200	.7872	.0900
9.5	.925	-.087	.3410	.0440	1.5339	.1979
5.4	.975	-.017	.4420	.0650	1.9882	.2924
PLAB= 3.000 GEV/C, ECM=2.614 GEV, SYS ER=15.0 TEC=HBC REF=74Y1						
120.2	-.950	-4.454	.0110	.0050	.0302	.0137
88.4	-.820	-4.156	.0086	.0031	.0236	.0085
67.8	-.620	-3.698	.0230	.0040	.0631	.0110
52.0	-.350	-3.080	.0150	.0030	.0411	.0082
38.3	0.000	-2.278	.0130	.0020	.0357	.0055
27.5	.350	-1.476	.0240	.0030	.0658	.0082
20.2	.600	-.904	.0230	.0040	.0631	.0110
15.4	.750	-.560	.0460	.0080	.1262	.0219
11.6	.850	-.331	.1100	.0120	.3017	.0329
8.1	.925	-.159	.1570	.0200	.4306	.0549
4.6	.975	-.045	.2500	.0270	.6857	.0741

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR
PLAB= 4.250 GEV/C, ECM=3.026 GEV, SYS ER=15.0 TEC=HBC REF=74Y1						
72.5	-.750	-6.001	.0052	.0011	.0095	.0020
33.7	0.000	-3.425	.0019	.0004	.0035	.0007
17.5	.600	-1.364	.0062	.0014	.0113	.0026
13.3	.750	-.849	.0120	.0030	.0220	.0055
10.1	.850	-.506	.0500	.0060	.0915	.0110
7.0	.925	-.248	.1050	.0120	.1921	.0220
4.0	.975	-.076	.1970	.0180	.3604	.0329
PLAB= 6.500 GEV/C, ECM=3.655 GEV, SYS ER=15.0 TEC=HBC REF=74Y1						
63.8	-.750	-9.654	.0005	.0002	.0006	.0003
28.3	0.000	-5.514	.0002	.0001	.0003	.0001
14.6	.600	-2.202	.0008	.0004	.0009	.0004
11.1	.750	-1.374	.0033	.0011	.0038	.0013
8.3	.850	-.822	.0120	.0020	.0137	.0023
5.8	.925	-.408	.0330	.0050	.0376	.0057
3.3	.975	-.132	.1600	.0130	.1821	.0148
PLAB=10.000 GEV/C, ECM=4.463 GEV, SYS ER=15.0 TEC=HBC REF=74Y1						
55.0	-.750	-15.371	.0002	.0002	.0001	.0001
6.8	.850	-1.314	.0027	.0003	.0019	.0002
4.8	.925	-.655	.0073	.0035	.0052	.0025
2.7	.975	-.215	.0720	.0140	.0515	.0100

THE NUMBER OF DATA POINTS IS = 616
THE TOTAL NUMBER OF DATA CARDS IS = 653
THE NUMBER OF ENERGY DATA IS = 37

KL P = 50 PI+ DIFFERENTIAL CROSS SECTIONS

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR
PLAB= .462 GEV/C, ECM=1.550 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
140.8	-.950	-.256	.195	.037	7.53	1.43
117.9	-.850	-.239	.156	.033	6.03	1.27
104.8	-.750	-.223	.222	.040	8.58	1.55
95.3	-.650	-.207	.124	.030	4.79	1.16
87.6	-.550	-.191	.153	.033	5.91	1.27
81.2	-.450	-.174	.161	.034	6.22	1.31
75.4	-.350	-.158	.149	.034	5.76	1.31
70.3	-.250	-.142	.185	.037	7.15	1.43
65.4	-.150	-.125	.092	.027	3.55	1.04
60.9	-.050	-.109	.136	.032	5.25	1.24
56.5	.050	-.093	.175	.037	6.76	1.43
52.3	.150	-.077	.131	.032	5.06	1.24
48.1	.250	-.060	.256	.044	9.89	1.70
43.9	.350	-.044	.153	.034	5.91	1.31
39.6	.450	-.028	.183	.038	7.07	1.47
35.2	.550	-.012	.114	.030	4.40	1.16
30.6	.650	.005	.215	.046	8.31	1.78
25.4	.750	.021	.262	.053	10.12	2.05
PLAB= .498 GEV/C, ECM=1.565 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
140.5	-.950	-.293	.213	.037	7.37	1.28
117.4	-.850	-.275	.202	.036	6.99	1.25
104.3	-.750	-.257	.203	.036	7.03	1.25
94.8	-.650	-.239	.178	.034	6.16	1.18
87.2	-.550	-.221	.149	.031	5.16	1.07
80.7	-.450	-.203	.238	.040	8.24	1.38
75.0	-.350	-.185	.246	.041	8.52	1.42
69.8	-.250	-.166	.115	.028	3.98	.97
65.0	-.150	-.148	.152	.033	5.26	1.14
60.5	-.050	-.130	.133	.030	4.60	1.04
56.1	.050	-.112	.095	.025	3.29	.87
51.9	.150	-.094	.167	.034	5.78	1.18
47.7	.250	-.076	.213	.039	7.37	1.35
43.5	.350	-.057	.179	.035	6.20	1.21
39.3	.450	-.039	.184	.036	6.37	1.25
34.9	.550	-.021	.212	.040	7.34	1.38
30.3	.650	-.003	.141	.033	4.88	1.14
25.2	.750	.015	.250	.048	8.66	1.66
PLAB= .521 GEV/C, ECM=1.575 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
140.3	-.950	-.318	.164	.031	5.31	1.00
117.2	-.850	-.299	.184	.033	5.96	1.07
104.0	-.750	-.280	.115	.026	3.73	.84
94.5	-.650	-.260	.120	.028	3.89	.91
86.9	-.550	-.241	.085	.023	2.75	.75
80.4	-.450	-.221	.122	.027	3.95	.87
74.7	-.350	-.202	.081	.022	2.62	.71
69.5	-.250	-.183	.083	.023	2.69	.75
64.7	-.150	-.163	.169	.033	5.48	1.07
60.2	-.050	-.144	.127	.028	4.11	.91
55.8	.050	-.124	.118	.027	3.82	.87
51.6	.150	-.105	.127	.028	4.11	.91
47.5	.250	-.086	.134	.029	4.34	.94
43.3	.350	-.066	.133	.029	4.31	.94
39.1	.450	-.047	.166	.033	5.38	1.07
34.7	.550	-.028	.104	.026	3.37	.84
30.1	.650	-.008	.248	.043	8.04	1.39
25.1	.750	.011	.190	.042	6.16	1.36
PLAB= .544 GEV/C, ECM=1.585 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
140.0	-.950	-.344	.204	.030	6.20	.91
116.9	-.850	-.323	.150	.026	4.56	.79
103.7	-.750	-.303	.174	.028	5.29	.85
94.2	-.650	-.282	.157	.027	4.77	.82
86.6	-.550	-.261	.193	.030	5.87	.91
80.1	-.450	-.241	.158	.027	4.80	.82
74.4	-.350	-.220	.152	.027	4.62	.82
69.2	-.250	-.199	.140	.026	4.26	.79
64.4	-.150	-.179	.130	.025	3.95	.76
59.9	-.050	-.158	.190	.030	5.78	.91
55.6	.050	-.137	.155	.027	4.71	.82
51.4	.150	-.117	.152	.027	4.62	.82
47.2	.250	-.096	.162	.028	4.92	.85
43.1	.350	-.075	.111	.023	3.37	.70
38.9	.450	-.055	.166	.028	5.05	.85
34.5	.550	-.034	.128	.025	3.89	.76
29.9	.650	-.013	.147	.028	4.47	.85
24.9	.750	.007	.153	.029	4.65	.88
19.0	.850	.028	.171	.035	5.20	1.06
PLAB= .550 GEV/C, ECM=1.587 GEV, SYS ER= .1 TEC=HBC REF=76C1						
140.0	-.950	-.351	.218	.018	6.52	.54
116.8	-.850	-.330	.159	.014	4.76	.42
103.6	-.750	-.309	.150	.014	4.49	.42

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR
PLAB= .550 GEV/C, ECM=1.587 GEV, SYS ER= .1 TEC=HBC REF=76C1						
94.1	-.650	-.288	.156	.014	4.67	.42
86.5	-.550	-.267	.145	.014	4.34	.42
80.0	-.450	-.246	.155	.014	4.64	.42
74.3	-.350	-.225	.150	.014	4.49	.42
69.1	-.250	-.204	.150	.014	4.49	.42
64.3	-.150	-.183	.155	.014	4.64	.42
59.8	-.050	-.162	.108	.010	3.23	.30
55.5	.050	-.141	.127	.012	3.80	.36
51.3	.150	-.120	.150	.014	4.49	.42
47.2	.250	-.099	.164	.014	4.91	.42
43.0	.350	-.078	.141	.014	4.22	.42
38.8	.450	-.057	.132	.014	3.95	.42
34.5	.550	-.036	.162	.015	4.85	.45
29.9	.650	-.015	.127	.014	3.80	.42
24.9	.750	.006	.164	.018	4.91	.54
19.0	.850	.027	.168	.018	5.02	.54
PLAB= .550 GEV/C, ECM=1.587 GEV, SYS ER=10.0 TEC=HBC REF=78E1						
140.0	-.950	-.351	.230	.020	6.88	.60
116.8	-.850	-.330	.160	.020	4.79	.60
103.6	-.750	-.309	.160	.020	4.79	.60
94.1	-.650	-.288	.170	.070	5.08	2.09
86.5	-.550	-.267	.150	.020	4.49	.60
80.0	-.450	-.246	.160	.020	4.79	.60
74.3	-.350	-.225	.160	.020	4.79	.60
69.1	-.250	-.204	.150	.020	4.49	.60
64.3	-.150	-.183	.150	.020	4.49	.60
59.8	-.050	-.162	.120	.010	3.59	.30
55.5	.050	-.141	.140	.020	4.19	.60
51.3	.150	-.120	.140	.020	4.19	.60
47.2	.250	-.099	.150	.020	4.49	.60
43.0	.350	-.078	.120	.020	3.59	.60
38.8	.450	-.057	.130	.020	3.89	.60
34.5	.550	-.036	.170	.020	5.08	.60
29.9	.650	-.015	.130	.020	3.89	.60
24.9	.750	.006	.180	.020	5.38	.60
19.0	.850	.027	.150	.020	4.49	.60
PLAB= .567 GEV/C, ECM=1.595 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
139.8	-.950	-.370	.191	.030	5.46	.86
116.6	-.850	-.348	.129	.025	3.69	.71
103.4	-.750	-.326	.096	.021	2.74	.60
93.9	-.650	-.304	.139	.026	3.97	.74
86.2	-.550	-.282	.102	.022	2.92	.63
79.8	-.450	-.260	.120	.024	3.43	.69
74.1	-.350	-.238	.076	.019	2.17	.54
68.9	-.250	-.216	.088	.021	2.52	.60
64.1	-.150	-.195	.103	.022	2.94	.63
59.6	-.050	-.173	.096	.022	2.74	.63
55.3	.050	-.151	.113	.024	3.23	.69
51.1	.150	-.129	.083	.020	2.37	.57
47.0	.250	-.107	.099	.022	2.83	.63
42.8	.350	-.085	.067	.018	1.92	.51
38.7	.450	-.063	.101	.022	2.89	.63
34.3	.550	-.041	.103	.023	2.94	.66
29.8	.650	-.019	.148	.029	4.23	.83
24.2	.750	.013	.139	.029	3.19	.67
18.9	.850	.025	.197	.041	5.63	1.17
PLAB= .590 GEV/C, ECM=1.605 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
139.6	-.950	-.397	.217	.035	5.85	.94
116.3	-.850	-.374	.128	.027	3.45	.73
103.1	-.750	-.351	.152	.027	4.10	.73
93.6	-.650	-.327	.117	.026	3.15	.70
85.9	-.550	-.304	.140	.028	3.77	.75
79.5	-.450	-.281	.119	.026	3.21	.70
73.8	-.350	-.257	.093	.023	2.51	.62
68.6	-.250	-.234	.143	.029	3.85	.78
63.8	-.150	-.211	.077	.021	2.08	.57
59.3	-.050	-.187	.067	.020	1.81	.54
55.0	.050	-.164	.136	.029	3.67	.78
50.8	.150	-.141	.058	.019	1.56	.51
46.7	.250	-.117	.081	.022	2.18	.59
42.6	.350	-.094	.097	.024	2.61	.65
38.4	.450	-.071	.131	.028	3.53	.75
34.1	.550	-.047	.058	.019	1.56	.51
29.6	.650	-.024	.142	.030	3.83	.81
24.6	.750	-.001	.204	.038	5.50	1.02
18.8	.850	.022	.217	.045	5.85	1.21
PLAB= .623 GEV/C, ECM=1.620 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
139.3	-.950	-.437	.248	.031	6.16	.77
115.9	-.850	-.411	.154	.025	3.83	.62
102.6	-.750	-.386	.124	.022	3.08	.55

KL P = 50 PI+ DIFFERENTIAL CROSS SECTIONS

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR
PLAB= .623 GEV/C, ECM=1.620 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
93.1	-.650	-.361	.095	.019	2.36	.47
85.5	-.550	-.336	.089	.018	2.21	.45
79.0	-.450	-.310	.078	.018	1.94	.45
73.3	-.350	-.285	.070	.017	1.74	.42
68.2	-.250	-.260	.078	.018	1.94	.45
63.4	-.150	-.234	.075	.017	1.86	.42
58.9	-.050	-.209	.060	.016	1.49	.40
54.6	.050	-.184	.049	.014	1.22	.35
50.5	.150	-.159	.092	.019	2.29	.47
46.4	.250	-.133	.082	.018	2.04	.45
42.3	.350	-.108	.076	.018	1.89	.45
38.1	.450	-.083	.084	.019	2.09	.47
33.9	.550	-.057	.061	.016	1.52	.40
29.3	.650	-.032	.111	.022	2.76	.55
24.4	.750	-.007	.170	.028	4.22	.70
18.6	.850	.018	.166	.030	4.13	.75
PLAB= .634 GEV/C, ECM=1.625 GEV, SYS ER=15.0 TEC=HBC REF=7581						
139.2	-.950	-.450	.252	.020	6.10	.48
115.7	-.850	-.424	.212	.025	5.12	.61
102.5	-.750	-.398	.178	.024	4.31	.57
93.0	-.650	-.372	.168	.023	4.07	.54
85.3	-.550	-.346	.137	.020	3.30	.48
78.9	-.450	-.320	.073	.015	1.77	.36
73.2	-.350	-.294	.040	.010	.97	.24
68.1	-.250	-.268	.025	.007	.61	.17
63.3	-.150	-.242	.074	.020	1.78	.48
58.8	-.050	-.217	.050	.012	1.21	.28
54.5	.050	-.191	.039	.010	.94	.24
50.3	.150	-.165	.047	.010	1.13	.24
46.3	.250	-.139	.050	.012	1.21	.28
42.2	.350	-.113	.082	.015	1.99	.36
38.0	.450	-.087	.152	.020	3.68	.48
33.8	.550	-.061	.105	.018	2.54	.42
29.3	.650	-.035	.135	.020	3.27	.48
24.3	.750	-.009	.141	.020	3.41	.48
18.5	.850	.017	.207	.024	5.00	.58
10.5	.950	.043	.264	.022	6.38	.52
PLAB= .656 GEV/C, ECM=1.635 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
138.9	-.950	-.477	.196	.031	4.51	.71
115.5	-.850	-.450	.171	.029	3.93	.67
102.2	-.750	-.423	.157	.028	3.61	.64
92.7	-.650	-.395	.113	.023	2.60	.53
85.0	-.550	-.368	.110	.023	2.53	.53
78.6	-.450	-.341	.098	.023	2.25	.53
72.9	-.350	-.313	.085	.020	1.96	.46
67.8	-.250	-.286	.081	.020	1.86	.46
63.0	-.150	-.259	.047	.015	1.08	.35
58.5	-.050	-.231	.051	.016	1.17	.37
54.3	.050	-.204	.076	.020	1.75	.46
50.1	.150	-.177	.026	.012	.60	.28
46.0	.250	-.150	.051	.016	1.17	.37
42.0	.350	-.122	.035	.013	.81	.30
37.8	.450	-.095	.067	.019	1.54	.44
33.6	.550	-.068	.111	.024	2.55	.55
29.1	.650	-.040	.059	.018	1.36	.41
24.2	.750	-.013	.129	.027	2.97	.62
18.4	.850	.014	.173	.035	3.98	.81
PLAB= .678 GEV/C, ECM=1.645 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
138.7	-.950	-.505	.298	.040	6.53	.88
115.2	-.850	-.476	.196	.032	4.29	.70
101.9	-.750	-.447	.122	.026	2.67	.57
92.4	-.650	-.419	.116	.025	2.54	.55
84.7	-.550	-.390	.107	.024	2.34	.53
78.3	-.450	-.361	.084	.021	1.84	.46
72.6	-.350	-.333	.044	.016	.96	.35
67.5	-.250	-.304	.060	.018	1.31	.39
62.7	-.150	-.275	.086	.021	1.88	.46
58.3	-.050	-.247	.028	.013	.61	.28
54.0	.050	-.218	.043	.015	.94	.33
49.9	.150	-.189	.039	.015	.85	.33
45.8	.250	-.161	.044	.016	.96	.35
41.7	.350	-.132	.034	.014	.74	.31
37.6	.450	-.103	.074	.020	1.62	.44
33.4	.550	-.075	.064	.019	1.40	.42
28.9	.650	-.046	.050	.017	1.10	.37
24.0	.750	-.017	.159	.031	3.48	.68
18.3	.850	.011	.191	.037	4.18	.81
PLAB= .699 GEV/C, ECM=1.655 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
138.5	-.950	-.532	.256	.040	5.36	.84
114.9	-.850	-.502	.233	.038	4.88	.80

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR
PLAB= .699 GEV/C, ECM=1.655 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
101.6	-.750	-.472	.179	.033	3.75	.69
92.1	-.650	-.442	.143	.030	2.99	.63
84.5	-.550	-.412	.043	.016	.90	.33
78.0	-.450	-.381	.068	.021	1.42	.44
72.3	-.350	-.351	.043	.016	.90	.33
67.2	-.250	-.321	.067	.020	1.40	.42
62.5	-.150	-.291	.032	.014	.67	.29
58.0	-.050	-.261	.046	.017	.96	.36
53.7	.050	-.231	.045	.017	.94	.36
49.6	.150	-.201	.019	.011	.40	.23
45.6	.250	-.171	.026	.013	.54	.27
41.5	.350	-.141	.033	.015	.69	.31
37.4	.450	-.111	.027	.014	.57	.29
33.2	.550	-.081	.039	.016	.82	.33
28.8	.650	-.051	.120	.028	2.51	.59
23.9	.750	-.021	.132	.030	2.76	.63
18.2	.850	.009	.256	.045	5.36	.94
PLAB= .737 GEV/C, ECM=1.672 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
138.1	-.950	-.581	.392	.034	7.58	.66
114.4	-.850	-.548	.241	.026	4.66	.50
101.1	-.750	-.516	.220	.025	4.26	.48
91.6	-.650	-.483	.167	.022	3.23	.43
83.9	-.550	-.451	.129	.019	2.50	.37
77.5	-.450	-.418	.098	.017	1.90	.33
71.8	-.350	-.386	.059	.013	1.14	.25
66.7	-.250	-.354	.040	.011	.77	.21
62.0	-.150	-.321	.015	.007	.29	.14
57.6	-.050	-.289	.027	.009	.52	.17
53.3	.050	-.256	.008	.005	.15	.10
49.2	.150	-.224	.020	.007	.39	.14
45.2	.250	-.191	.022	.008	.43	.15
41.1	.350	-.159	.037	.011	.72	.21
37.1	.450	-.126	.043	.012	.83	.23
32.9	.550	-.094	.107	.018	2.07	.35
28.5	.650	-.061	.112	.019	2.17	.37
23.7	.750	-.029	.118	.020	2.28	.39
18.0	.850	.004	.237	.031	4.58	.60
PLAB= .791 GEV/C, ECM=1.698 GEV, SYS ER= 5.0 TEC=HBC REF=78C1						
137.6	-.950	-.653	.315	.035	5.48	.61
113.7	-.850	-.617	.180	.027	3.13	.47
100.4	-.750	-.581	.168	.026	2.92	.45
90.8	-.650	-.545	.128	.023	2.23	.40
83.2	-.550	-.509	.140	.024	2.44	.42
76.8	-.450	-.472	.076	.018	1.32	.31
71.1	-.350	-.436	.052	.014	.91	.24
66.0	-.250	-.400	.043	.013	.75	.23
61.3	-.150	-.364	.020	.009	.35	.16
56.9	-.050	-.328	.017	.009	.30	.16
52.7	.050	-.292	.029	.011	.50	.19
48.6	.150	-.256	.029	.011	.50	.19
44.6	.250	-.220	.042	.013	.73	.23
40.6	.350	-.184	.070	.017	1.22	.30
36.6	.450	-.148	.097	.020	1.69	.35
32.5	.550	-.112	.128	.023	2.23	.40
28.1	.650	-.076	.131	.024	2.28	.42
23.3	.750	-.039	.136	.024	2.37	.42
17.8	.850	-.003	.182	.030	3.17	.52
PLAB= .902 GEV/C, ECM=1.750 GEV, SYS ER=15.0 TEC=HBC REF=75B1						
136.5	-.950	-.807	.138	.016	1.98	.23
112.4	-.850	-.763	.107	.016	1.53	.23
98.9	-.750	-.719	.093	.014	1.33	.19
89.4	-.650	-.676	.032	.009	.45	.12
81.8	-.550	-.632	.049	.011	.70	.16
75.4	-.450	-.588	.017	.005	.24	.07
69.7	-.350	-.544	.008	.004	.11	.05
64.7	-.250	-.500	.006	.004	.09	.05
60.0	-.150	-.457	.017	.005	.24	.07
55.6	-.050	-.413	.018	.005	.25	.07
51.4	.050	-.369	.036	.010	.51	.14
47.4	.150	-.325	.023	.008	.32	.11
43.5	.250	-.281	.040	.009	.57	.13
39.6	.350	-.237	.053	.012	.76	.17
35.6	.450	-.194	.050	.011	.72	.16
31.6	.550	-.150	.054	.011	.77	.16
27.3	.650	-.106	.111	.015	1.59	.22
22.7	.750	-.062	.092	.017	1.31	.24
17.3	.850	-.018	.101	.015	1.45	.22
9.8	.950	.026	.108	.015	1.54	.22

KL P = SO P1+ DIFFERENTIAL CROSS SECTIONS

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR
PLAB= 1.171 GEV/C, ECM=1.875 GEV, SYS ER=15.0 TEC=HBC REF=75B1						
133.9	-.950	-1.207	.052	.006	.51	.06
109.1	-.850	-1.143	.036	.007	.35	.07
95.6	-.750	-1.079	.015	.004	.14	.04
86.0	-.650	-1.015	.007	.003	.06	.03
78.4	-.550	-.951	.004	.002	.03	.02
72.1	-.450	-.887	.006	.003	.06	.03
66.5	-.350	-.823	.014	.004	.14	.04
61.6	-.250	-.759	.018	.004	.17	.03
57.0	-.150	-.695	.030	.006	.29	.05
52.7	-.050	-.631	.021	.005	.21	.04
48.7	.050	-.567	.024	.005	.23	.05
44.8	.150	-.503	.035	.007	.34	.07
41.0	.250	-.439	.030	.007	.29	.06
37.2	.350	-.375	.035	.007	.34	.07
33.5	.450	-.311	.041	.008	.40	.08
29.6	.550	-.247	.064	.009	.63	.09
25.6	.650	-.183	.068	.010	.66	.10
21.2	.750	-.119	.076	.010	.75	.09
16.1	.850	-.055	.057	.009	.55	.09
9.1	.950	.009	.091	.007	.89	.06
PLAB= 1.504 GEV/C, ECM=2.025 GEV, SYS ER=15.0 TEC=HBC REF=75B1						
130.9	-.950	-1.736	.0170	.0040	.1176	.0277
105.5	-.850	-1.646	.0150	.0040	.1038	.0277
91.9	-.750	-1.555	.0060	.0035	.0415	.0242
82.3	-.650	-1.464	.0060	.0030	.0415	.0208
74.8	-.550	-1.373	.0055	.0025	.0381	.0173
68.5	-.450	-1.282	.0090	.0035	.0623	.0242
63.0	-.350	-1.192	.0215	.0050	.1488	.0346
58.2	-.250	-1.101	.0205	.0040	.1419	.0277
53.7	-.150	-1.010	.0140	.0040	.0969	.0277
49.6	-.050	-.919	.0165	.0040	.1142	.0277
45.7	.050	-.828	.0180	.0045	.1246	.0311
42.0	.150	-.738	.0170	.0040	.1176	.0277
38.3	.250	-.647	.0190	.0050	.1315	.0346
34.8	.350	-.556	.0110	.0035	.0761	.0242
31.2	.450	-.465	.0055	.0025	.0381	.0173
27.6	.550	-.375	.0085	.0030	.0588	.0208
23.8	.650	-.284	.0055	.0025	.0381	.0173
19.7	.750	-.193	.0175	.0050	.1211	.0346
15.0	.850	-.102	.0465	.0075	.3218	.0519
8.5	.950	-.011	.0780	.0095	.5398	.0657
PLAB= 1.914 GEV/C, ECM=2.200 GEV, SYS ER=15.0 TEC=HBC REF=75B1						
127.6	-.950	-2.419	.0115	.0035	.0576	.0175
101.6	-.850	-2.293	0.0000	.0015	0.0000	.0075
87.8	-.750	-2.168	.0100	.0030	.0501	.0150
78.3	-.650	-2.042	.0110	.0030	.0551	.0150
70.9	-.550	-1.917	.0020	.0015	.0100	.0075
64.7	-.450	-1.791	.0020	.0015	.0100	.0075
59.4	-.350	-1.666	.0050	.0020	.0250	.0100
54.6	-.250	-1.540	.0110	.0030	.0551	.0150
50.3	-.150	-1.415	.0050	.0030	.0250	.0150
46.4	-.050	-1.289	.0075	.0025	.0376	.0125
42.6	.050	-1.164	.0075	.0030	.0376	.0150
39.1	.150	-1.038	.0090	.0030	.0451	.0150
35.6	.250	-.913	.0105	.0035	.0526	.0175
32.3	.350	-.787	.0100	.0035	.0501	.0175
28.9	.450	-.662	.0100	.0025	.0501	.0125
25.5	.550	-.536	.0110	.0030	.0551	.0150
22.0	.650	-.411	.0120	.0035	.0601	.0175
18.2	.750	-.285	.0165	.0045	.0826	.0225
13.8	.850	-.160	.0515	.0075	.2579	.0376
7.8	.950	-.034	.1120	.0105	.5608	.0526
PLAB= 2.000 GEV/C, ECM=2.235 GEV, SYS ER=15.0 TEC=HBC REF=74Y1						
105.5	-.875	-2.465	.0160	.0040	.0756	.0189
75.5	-.625	-2.133	.0170	.0050	.0804	.0236
58.7	-.350	-1.767	.0310	.0060	.1465	.0284
43.9	0.000	-1.302	.0190	.0040	.0898	.0189
31.8	.350	-.837	.0240	.0050	.1134	.0236
23.4	.600	-.504	.0290	.0060	.1371	.0284
17.9	.750	-.305	.0260	.0080	.1229	.0378
13.6	.850	-.172	.1060	.0170	.5011	.0804
9.5	.925	-.072	.2120	.0350	1.0021	.1654
5.4	.975	-.006	.2450	.0410	1.1581	.1938
PLAB= 3.000 GEV/C, ECM=2.614 GEV, SYS ER=15.0 TEC=HBC REF=74Y1						
98.0	-.875	-4.137	.0120	.0030	.0340	.0085
68.2	-.625	-3.583	.0050	.0019	.0142	.0054
52.0	-.350	-2.973	.0053	.0016	.0150	.0045
38.3	0.000	-2.197	.0091	.0019	.0258	.0054
27.5	.350	-1.422	.0063	.0018	.0179	.0051
20.2	.600	-.867	.0086	.0025	.0244	.0071

THLAB DEG	COSTH*	T (GEV/C)**2	DSIG/DOM* MB/SR	ERROR	DSIG/DT MB/((GEV/C)**2)	ERROR
PLAB= 3.000 GEV/C, ECM=2.614 GEV, SYS ER=15.0 TEC=HBC REF=74Y1						
15.4	.750	-.535	.0120	.0040	.0340	.0113
11.6	.850	-.313	.0320	.0060	.0907	.0170
8.1	.925	-.147	.1140	.0180	.3231	.0510
4.6	.975	-.036	.1640	.0220	.4648	.0624
PLAB= 4.250 GEV/C, ECM=3.026 GEV, SYS ER=15.0 TEC=HBC REF=74Y1						
72.5	-.750	-5.860	.0036	.0009	.0067	.0017
33.7	0.000	-3.343	.0010	.0003	.0018	.0006
17.5	.600	-1.329	.0037	.0012	.0069	.0022
13.3	.750	-.825	.0058	.0021	.0109	.0039
10.1	.850	-.489	.0110	.0028	.0206	.0052
7.0	.925	-.238	.0470	.0080	.0880	.0150
4.0	.975	-.070	.1730	.0170	.3238	.0318
PLAB= 6.500 GEV/C, ECM=3.655 GEV, SYS ER=15.0 TEC=HBC REF=74Y1						
63.8	-.750	-9.508	.0006	.0003	.0007	.0003
28.3	0.000	-5.429	.0001	.0001	.0001	.0001
14.6	.600	-2.166	.0011	.0005	.0013	.0006
11.1	.750	-1.350	.0013	.0008	.0015	.0009
8.3	.850	-.806	.0028	.0011	.0032	.0013
5.8	.925	-.398	.0140	.0030	.0162	.0035
3.3	.975	-.126	.1320	.0120	.1525	.0139
PLAB=10.000 GEV/C, ECM=4.463 GEV, SYS ER=15.0 TEC=HBC REF=74Y1						
55.0	-.750	-15.223	.0006	.0004	.0004	.0003
4.8	.925	-.646	.0011	.0012	.0008	.0009
2.7	.975	-.211	.0620	.0130	.0448	.0094

THE NUMBER OF DATA POINTS IS = 400
THE TOTAL NUMBER OF DATA CARDS IS = 424
THE NUMBER OF ENERGY DATA IS = 24

KL P= L0 PI+ POLARIZATION

THLAB DEG	COSTH*	T (GEV/C)**2	P	ERROR
PLAB= .550 GEV/C, ECM=1.587 GEV, SYS ER=10.0 TEC=HBC REF=73E1				
140.0	-.950	-.147	-.010	.030
116.8	-.850	-.122	-.050	.030
103.6	-.750	-.097	.020	.030
94.1	-.650	-.072	-.010	.040
86.5	-.550	-.047	.010	.030
80.0	-.450	-.022	-.040	.040
74.3	-.350	.003	.020	.030
69.1	-.250	.028	.080	.030
64.3	-.150	.052	.040	.030
59.8	-.050	.077	.010	.030
55.5	.050	.102	.050	.040
51.3	.150	.127	.060	.040
47.2	.250	.152	.050	.050
43.0	.350	.177	.040	.050
38.8	.450	.202	.040	.050
34.5	.550	.227	.110	.060
29.9	.650	.252	.040	.060
24.9	.750	.277	.090	.070
19.0	.850	.302	-.060	.080
PLAB= .634 GEV/C, ECM=1.625 GEV, SYS ER=15.0 TEC=HBC REF=7581				
82.0	-.500	-.128	.090	.220
35.9	.500	.174	-.310	.190
PLAB= .902 GEV/C, ECM=1.750 GEV, SYS ER=15.0 TEC=HBC REF=7581				
78.4	-.500	-.453	.290	.150
33.6	.500	.037	-.640	.170
PLAB= .171 GEV/C, ECM=1.454 GEV, SYS ER=15.0 TEC=HBC REF=7581				
75.1	-.500	-.800	-.320	.230
31.6	.500	-.103	-.230	.130
PLAB= .735 GEV/C, ECM=1.671 GEV, SYS ER=15.0 TEC=HBC REF=7581				
69.2	-.500	-1.559	-.290	.170
28.1	.500	-.392	.150	.130

THE NUMBER OF DATA POINTS IS = 27
THE TOTAL NUMBER OF DATA CARDS IS = 32
THE NUMBER OF ENERGY DATA IS = 5

KLP = SO PI+ POLARIZATION

THLAB DEG	COSTH*	T (GEV/C)**2	P	ERROR
PLAB= .550 GEV/C, ECM=1.587 GEV, SYS ER=10.0 TEC=HBC REF=78E1				
140.0	-.950	-.351	.080	.080
116.8	-.850	-.330	-.020	.080
103.6	-.750	-.309	.080	.060
94.1	-.650	-.288	-.010	.060
86.5	-.550	-.267	.070	.060
80.0	-.450	-.246	.020	.060
74.3	-.350	-.225	-.010	.060
69.1	-.250	-.204	-.040	.060
64.3	-.150	-.183	.070	.060
59.8	-.050	-.162	.010	.050
55.5	.050	-.141	.150	.060
51.3	.150	-.120	.020	.060
47.2	.250	-.099	-.010	.050
43.0	.350	-.078	.040	.050
38.8	.450	-.057	.010	.060
34.5	.550	-.036	-.050	.070
29.9	.650	-.015	.080	.070
24.9	.750	.006	.040	.080
19.0	.850	.027	-.140	.080

THE NUMBER OF DATA POINTS IS = 19
THE TOTAL NUMBER OF DATA CARDS IS = 20
THE NUMBER OF ENERGY DATA IS = 1

COEFFICIENTS OF THE LEGENDRE POLYNOMIAL EXPANSIONS

KL P=KS P LEGENDRE COEFFICIENTS A1/A0

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	A	ERROR	SYS ER (%)	TEC	REF
.462	1.550	.280	-.300	.080	5.0	MBC	78C1
.470	1.553	.284	-.590	.140	15.0	MBC	76E1
.498	1.565	.299	-.710	.090	5.0	MBC	78C1
.500	1.566	.300	-.930	.130	15.0	MBC	76E1
.515	1.572	.307	-.700	.140	15.0	MBC	76E1
.521	1.575	.310	-.580	.100	5.0	MBC	78C1
.525	1.577	.312	-.630	.120	15.0	MBC	76E1
.535	1.581	.318	-.860	.120	15.0	MBC	76E1
.544	1.585	.322	-.720	.060	5.0	MBC	78C1
.545	1.585	.323	-.800	.140	15.0	MBC	76E1
.550	1.587	.325	-.720	.040	10.0	MBC	78E1
.555	1.590	.328	-.830	.130	15.0	MBC	76E1
.565	1.594	.333	-.590	.120	15.0	MBC	76E1
.567	1.595	.334	-.640	.070	5.0	MBC	78C1
.575	1.598	.338	-.770	.140	15.0	MBC	76E1
.585	1.603	.342	-.600	.130	15.0	MBC	76E1
.590	1.605	.345	-.810	.070	5.0	MBC	78C1
.595	1.607	.347	-.660	.170	15.0	MBC	76E1
.623	1.620	.361	-.630	.080	5.0	MBC	78C1
.645	1.630	.371	-.660	.170	5.0	MBC	79C2
.656	1.635	.376	-.700	.090	5.0	MBC	78C1
.678	1.645	.387	-.550	.080	5.0	MBC	78C1
.699	1.655	.396	-.620	.090	5.0	MBC	78C1
.737	1.672	.413	-.540	.050	5.0	MBC	78C1
.737	1.672	.413	-.500	.140	5.0	MBC	79C2
.791	1.698	.437	-.330	.070	5.0	MBC	78C1
.812	1.707	.446	-.150	.090	5.0	MBC	79C2
.887	1.743	.478	-.110	.070	5.0	MBC	79C2
.956	1.775	.505	-.200	.070	5.0	MBC	79C2
1.020	1.805	.530	-.240	.070	5.0	MBC	79C2
1.084	1.835	.554	-.460	.080	5.0	MBC	79C2
1.144	1.863	.576	-.410	.120	5.0	MBC	79C2
1.209	1.892	.599	-.470	.120	5.0	MBC	79C2

THE NUMBER OF DATA POINTS IS 33

KL P=KS P LEGENDRE COEFFICIENTS A2/A0

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	A	ERROR	SYS ER (%)	TEC	REF
.462	1.550	.280	.190	.140	5.0	MBC	78C1
.470	1.553	.284	-.020	.200	15.0	MBC	76E1
.498	1.565	.299	.370	.110	5.0	MBC	78C1
.500	1.566	.300	.460	.190	15.0	MBC	76E1
.515	1.572	.307	-.270	.180	15.0	MBC	76E1
.521	1.575	.310	.550	.100	5.0	MBC	78C1
.525	1.577	.312	.090	.160	15.0	MBC	76E1
.535	1.581	.318	.540	.170	15.0	MBC	76E1
.544	1.585	.322	.370	.090	5.0	MBC	78C1
.545	1.585	.323	.720	.160	15.0	MBC	76E1
.550	1.587	.325	.510	.050	10.0	MBC	78E1
.555	1.590	.328	.320	.170	15.0	MBC	76E1
.565	1.594	.333	.490	.160	15.0	MBC	76E1
.567	1.595	.334	.400	.100	5.0	MBC	78C1
.575	1.598	.338	.680	.180	15.0	MBC	76E1
.585	1.603	.342	.470	.170	15.0	MBC	76E1
.590	1.605	.345	.550	.060	5.0	MBC	78C1
.595	1.607	.347	.560	.210	15.0	MBC	76E1
.623	1.620	.361	.970	.080	5.0	MBC	78C1
.645	1.630	.371	1.280	.160	5.0	MBC	79C2
.656	1.635	.376	1.100	.090	5.0	MBC	78C1
.678	1.645	.387	1.240	.080	5.0	MBC	78C1
.699	1.655	.396	1.650	.080	5.0	MBC	78C1
.737	1.672	.413	1.490	.050	5.0	MBC	78C1
.737	1.672	.413	1.330	.140	5.0	MBC	79C2
.791	1.698	.437	1.310	.060	5.0	MBC	78C1
.812	1.707	.446	1.500	.110	5.0	MBC	79C2
.887	1.743	.478	1.780	.070	5.0	MBC	79C2
.956	1.775	.505	1.450	.080	5.0	MBC	79C2
1.020	1.805	.530	.800	.090	5.0	MBC	79C2
1.084	1.835	.554	.370	.110	5.0	MBC	79C2
1.144	1.863	.576	.370	.130	5.0	MBC	79C2
1.209	1.892	.599	.450	.170	5.0	MBC	79C2

THE NUMBER OF DATA POINTS IS 33

KL P=KS P LEGENDRE COEFFICIENTS A3/A0

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	A	ERROR	SYS ER (0/0)	TEC	REF
.462	1.550	.280	-.140	.130	5.0	HBC	78C1
.470	1.553	.284	-.170	.240	15.0	HBC	76E1
.498	1.565	.299	-.240	.110	5.0	HBC	78C1
.500	1.566	.300	-.510	.220	15.0	HBC	76E1
.515	1.572	.307	-.320	.250	15.0	HBC	76E1
.521	1.575	.310	-.190	.090	5.0	HBC	78C1
.525	1.577	.312	-.340	.180	15.0	HBC	76E1
.535	1.581	.318	-.180	.200	15.0	HBC	76E1
.544	1.585	.322	-.070	.100	5.0	HBC	78C1
.545	1.585	.323	-.080	.180	15.0	HBC	76E1
.550	1.587	.325	-.060	.060	10.0	HBC	78E1
.555	1.590	.328	-.360	.210	15.0	HBC	76E1
.565	1.594	.333	.050	.190	15.0	HBC	76E1
.567	1.595	.334	-.050	.110	5.0	HBC	78C1
.575	1.598	.338	-.220	.190	15.0	HBC	76E1
.585	1.603	.342	.290	.180	15.0	HBC	76E1
.590	1.605	.345	-.260	.120	5.0	HBC	78C1
.595	1.607	.347	-.440	.250	15.0	HBC	76E1
.623	1.620	.361	-.140	.100	5.0	HBC	78C1
.645	1.630	.371	-.220	.210	5.0	HBC	79C2
.656	1.635	.376	-.180	.080	5.0	HBC	78C1
.678	1.645	.387	-.160	.130	5.0	HBC	78C1
.699	1.655	.396	-.090	.100	5.0	HBC	78C1
.737	1.672	.413	-.290	.070	5.0	HBC	78C1
.737	1.672	.413	-.190	.180	5.0	HBC	79C2
.791	1.698	.437	-.380	.070	5.0	HBC	78C1
.812	1.707	.446	-.100	.110	5.0	HBC	79C2
.887	1.743	.478	-.330	.090	5.0	HBC	79C2
.956	1.775	.505	-.400	.090	5.0	HBC	79C2
1.020	1.805	.530	-.360	.110	5.0	HBC	79C2
1.084	1.835	.554	-.340	.130	5.0	HBC	79C2
1.144	1.863	.576	.290	.180	5.0	HBC	79C2
1.209	1.892	.599	.130	.140	5.0	HBC	79C2

THE NUMBER OF DATA POINTS IS 33

KL P=KS P LEGENDRE COEFFICIENTS A4/A0

PLAB. (GEV/C)	ECM (GEV)	PCM (GEV/C)	A	ERROR	SYS ER (0/0)	TEC	REF
.462	1.550	.280	.030	.130	5.0	HBC	78C1
.470	1.553	.284	-.420	.310	15.0	HBC	76E1
.498	1.565	.299	.040	.130	5.0	HBC	78C1
.500	1.566	.300	.620	.230	15.0	HBC	76E1
.515	1.572	.307	-.980	.310	15.0	HBC	76E1
.521	1.575	.310	.020	.140	5.0	HBC	78C1
.525	1.577	.312	-.040	.230	15.0	HBC	76E1
.535	1.581	.318	.130	.240	15.0	HBC	76E1
.544	1.585	.322	.030	.110	5.0	HBC	78C1
.545	1.585	.323	-.010	.210	15.0	HBC	76E1
.550	1.587	.325	.020	.070	10.0	HBC	78E1
.555	1.590	.328	-.100	.260	15.0	HBC	76E1
.565	1.594	.333	.020	.230	15.0	HBC	76E1
.567	1.595	.334	-.250	.120	5.0	HBC	78C1
.575	1.598	.338	.110	.230	15.0	HBC	76E1
.585	1.603	.342	-.070	.260	15.0	HBC	76E1
.590	1.605	.345	-.390	.080	5.0	HBC	78C1
.595	1.607	.347	-.100	.300	15.0	HBC	76E1
.623	1.620	.361	.130	.110	5.0	HBC	78C1
.645	1.630	.371	.420	.220	5.0	HBC	79C2
.656	1.635	.376	.110	.130	5.0	HBC	78C1
.678	1.645	.387	.090	.120	5.0	HBC	78C1
.699	1.655	.396	.330	.120	5.0	HBC	78C1
.737	1.672	.413	.250	.080	5.0	HBC	78C1
.737	1.672	.413	.080	.210	5.0	HBC	79C2
.791	1.698	.437	-.070	.080	5.0	HBC	78C1
.812	1.707	.446	.160	.120	5.0	HBC	79C2
.887	1.743	.478	.380	.110	5.0	HBC	79C2
.956	1.775	.505	.450	.100	5.0	HBC	79C2
1.020	1.805	.530	.600	.120	5.0	HBC	79C2
1.084	1.835	.554	.430	.140	5.0	HBC	79C2
1.144	1.863	.576	.030	.210	5.0	HBC	79C2
1.209	1.892	.599	.800	.200	5.0	HBC	79C2

THE NUMBER OF DATA POINTS IS 33

KL P=L0 PI+ LEGENDRE COEFFICIENTS A1/A0

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	A	ERROR	SYS ER (0/0)	TEC	REF
.462	1.550	.280	1.160	.060	5.0	HBC	78C1
.470	1.553	.284	1.090	.190	15.0	HBC	76E1
.498	1.565	.299	1.120	.060	5.0	HBC	78C1
.500	1.566	.300	.720	.150	15.0	HBC	76E1
.515	1.572	.307	.970	.200	15.0	HBC	76E1
.521	1.575	.310	1.060	.060	5.0	HBC	78C1
.525	1.577	.312	.690	.170	15.0	HBC	76E1
.535	1.581	.318	.910	.140	15.0	HBC	76E1
.544	1.585	.322	1.100	.050	5.0	HBC	78C1
.545	1.585	.323	.950	.140	15.0	HBC	76E1
.550	1.587	.325	.850	.040	10.0	HBC	78E1
.555	1.590	.328	1.150	.120	15.0	HBC	76E1
.565	1.594	.333	.880	.100	15.0	HBC	76E1
.567	1.595	.334	1.150	.050	5.0	HBC	78C1
.575	1.598	.338	.930	.120	15.0	HBC	76E1
.585	1.603	.342	.480	.140	15.0	HBC	76E1
.590	1.605	.345	.570	.080	5.0	HBC	78C1
.595	1.607	.347	.420	.180	15.0	HBC	76E1
.623	1.620	.361	.680	.090	5.0	HBC	78C1
.645	1.630	.371	.320	.130	5.0	HBC	79C2
.656	1.635	.376	.420	.070	5.0	HBC	78C1
.678	1.645	.387	.210	.070	5.0	HBC	78C1
.699	1.655	.396	.340	.080	5.0	HBC	78C1
.737	1.672	.413	.230	.050	5.0	HBC	78C1
.737	1.672	.413	.120	.130	5.0	HBC	79C2
.791	1.698	.437	.170	.050	5.0	HBC	78C1
.812	1.707	.446	-.130	.090	5.0	HBC	79C2
.887	1.743	.478	-.370	.080	5.0	HBC	79C2
.956	1.775	.505	-.180	.080	5.0	HBC	79C2
1.020	1.805	.530	.270	.080	5.0	HBC	79C2
1.084	1.835	.554	.870	.090	5.0	HBC	79C2
1.144	1.863	.576	1.080	.100	5.0	HBC	79C2
1.209	1.892	.599	1.350	.080	5.0	HBC	79C2

THE NUMBER OF DATA POINTS IS 33

KL P=L0 PI+ LEGENDRE COEFFICIENTS A2/A0

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	A	ERROR	SYS ER (0/0)	TEC	REF
.462	1.550	.280	.470	.090	5.0	HBC	78C1
.470	1.553	.284	.680	.280	15.0	HBC	76E1
.498	1.565	.299	.530	.070	5.0	HBC	78C1
.500	1.566	.300	.300	.240	15.0	HBC	76E1
.515	1.572	.307	.880	.280	15.0	HBC	76E1
.521	1.575	.310	.660	.130	5.0	HBC	78C1
.525	1.577	.312	.380	.240	15.0	HBC	76E1
.535	1.581	.318	.150	.240	15.0	HBC	76E1
.544	1.585	.322	.720	.070	5.0	HBC	78C1
.545	1.585	.323	.560	.280	15.0	HBC	76E1
.550	1.587	.325	.540	.070	15.0	HBC	78E1
.555	1.590	.328	.680	.200	15.0	HBC	76E1
.565	1.594	.333	.870	.170	15.0	HBC	76E1
.567	1.595	.334	.930	.070	5.0	HBC	78C1
.575	1.598	.338	.730	.190	15.0	HBC	76E1
.585	1.603	.342	-.010	.220	15.0	HBC	76E1
.590	1.605	.345	.570	.080	5.0	HBC	78C1
.595	1.607	.347	.140	.260	15.0	HBC	76E1
.623	1.620	.361	.770	.090	5.0	HBC	78C1
.645	1.630	.371	.910	.130	5.0	HBC	79C2
.656	1.635	.376	.740	.080	5.0	HBC	78C1
.678	1.645	.387	.340	.080	5.0	HBC	78C1
.699	1.655	.396	1.150	.090	5.0	HBC	78C1
.737	1.672	.413	1.590	.130	5.0	HBC	79C2
.737	1.672	.413	1.380	.050	5.0	HBC	78C1
.791	1.698	.437	1.430	.050	5.0	HBC	78C1
.812	1.707	.446	1.900	.080	5.0	HBC	79C2
.887	1.743	.478	1.770	.080	5.0	HBC	79C2
.956	1.775	.505	1.090	.080	5.0	HBC	79C2
1.020	1.805	.530	.630	.100	5.0	HBC	79C2
1.084	1.835	.554	.500	.130	5.0	HBC	79C2
1.144	1.863	.576	.550	.150	5.0	HBC	79C2
1.209	1.892	.599	.440	.150	5.0	HBC	79C2

THE NUMBER OF DATA POINTS IS 33

KL P=L0 PI+ LEGENDRE COEFFICIENTS A3/A0

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	A	ERROR	SYS ER (0/0)	TEC	REF
.462	1.550	.280	.210	.080	5.0	HBC	78C1
.470	1.553	.284	.020	.350	15.0	HBC	76E1
.498	1.565	.299	-.060	.080	5.0	HBC	78C1
.500	1.566	.300	.350	.330	15.0	HBC	76E1
.515	1.572	.307	.540	.360	15.0	HBC	76E1
.521	1.575	.310	.290	.110	5.0	HBC	78C1
.525	1.577	.312	.420	.280	15.0	HBC	76E1
.535	1.581	.318	-.440	.290	15.0	HBC	76E1
.544	1.585	.322	.330	.080	5.0	HBC	78C1
.545	1.585	.323	-.180	.240	15.0	HBC	76E1
.550	1.587	.325	.130	.080	10.0	HBC	78E1
.555	1.590	.328	.190	.250	15.0	HBC	76E1
.565	1.594	.333	.380	.230	15.0	HBC	76E1
.567	1.595	.334	.530	.080	5.0	HBC	78C1
.575	1.598	.338	.180	.250	15.0	HBC	76E1
.585	1.603	.342	-.200	.260	15.0	HBC	76E1
.590	1.605	.345	.090	.120	5.0	HBC	78C1
.595	1.607	.347	-.320	.310	15.0	HBC	76E1
.623	1.620	.361	.510	.090	5.0	HBC	78C1
.645	1.630	.371	.400	.170	5.0	HBC	79C2
.656	1.635	.376	.710	.090	5.0	HBC	78C1
.678	1.645	.387	.390	.100	5.0	HBC	78C1
.699	1.655	.396	.600	.110	5.0	HBC	78C1
.737	1.672	.413	.510	.060	5.0	HBC	78C1
.737	1.672	.413	.190	.170	5.0	HBC	79C2
.791	1.698	.437	.510	.060	5.0	HBC	78C1
.812	1.707	.446	.420	.100	5.0	HBC	79C2
.887	1.743	.478	.240	.100	5.0	HBC	79C2
.956	1.775	.505	.010	.110	5.0	HBC	79C2
1.020	1.805	.530	-.520	.120	5.0	HBC	79C2
1.084	1.835	.554	-.490	.150	5.0	HBC	79C2
1.144	1.863	.576	-.360	.200	5.0	HBC	79C2
1.209	1.892	.599	-.720	.180	5.0	HBC	79C2

THE NUMBER OF DATA POINTS IS 33

KL P=L0 PI+ LEGENDRE COEFFICIENTS A4/A0

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	A	ERROR	SYS ER (0/0)	TEC	REF
.462	1.550	.280	-.010	.110	5.0	HBC	78C1
.470	1.553	.284	-.400	.410	10.0	HBC	76E1
.498	1.565	.299	-.270	.100	5.0	HBC	78C1
.500	1.566	.300	-.150	.310	15.0	HBC	76E1
.515	1.572	.307	.260	.380	15.0	HBC	76E1
.521	1.575	.310	0.000	.110	5.0	HBC	78C1
.525	1.577	.312	-.520	.340	15.0	HBC	76E1
.535	1.581	.318	-.510	.290	15.0	HBC	76E1
.544	1.585	.322	.180	.090	5.0	HBC	78C1
.545	1.585	.323	-.010	.240	15.0	HBC	76E1
.550	1.587	.325	-.140	.080	10.0	HBC	78E1
.555	1.590	.328	-.180	.230	15.0	HBC	76E1
.565	1.594	.333	.220	.220	15.0	HBC	76E1
.567	1.595	.334	.080	.090	5.0	HBC	78C1
.575	1.598	.338	-.120	.230	15.0	HBC	76E1
.585	1.603	.342	-.530	.280	15.0	HBC	76E1
.590	1.605	.345	-.330	.120	5.0	HBC	78C1
.595	1.607	.347	-.220	.300	15.0	HBC	76E1
.623	1.620	.361	-.080	.100	5.0	HBC	78C1
.645	1.630	.371	-.210	.190	5.0	HBC	79C2
.656	1.635	.376	-.170	.110	5.0	HBC	78C1
.678	1.645	.387	-.100	.120	5.0	HBC	78C1
.699	1.655	.396	.050	.130	5.0	HBC	78C1
.737	1.672	.413	.260	.180	5.0	HBC	79C2
.737	1.672	.413	.060	.080	5.0	HBC	78C1
.791	1.698	.437	.320	.070	5.0	HBC	78C1
.812	1.707	.446	.590	.110	5.0	HBC	79C2
.887	1.743	.478	.910	.100	5.0	HBC	79C2
.956	1.775	.505	.400	.120	5.0	HBC	79C2
1.020	1.805	.530	-.110	.140	5.0	HBC	79C2
1.084	1.835	.554	-.081	.160	5.0	HBC	79C2
1.144	1.863	.576	-.580	.140	5.0	HBC	79C2
1.209	1.892	.599	-.860	.170	5.0	HBC	79C2

THE NUMBER OF DATA POINTS IS 33

KL P=S0 PI+ LEGENDRE COEFFICIENTS A1/A0

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	A	ERROR	SYS ER (0/0)	TEC	REF
.462	1.550	.280	-.060	.100	5.0	HBC	78C1
.480	1.557	.289	.080	.120	15.0	HBC	76E1
.498	1.565	.299	-.060	.080	5.0	HBC	78C1
.521	1.575	.310	.330	.090	5.0	HBC	78C1
.525	1.577	.312	-.280	.140	15.0	HBC	76E1
.535	1.581	.318	-.060	.160	15.0	HBC	76E1
.544	1.585	.322	-.130	.080	5.0	HBC	78C1
.545	1.585	.323	-.120	.160	15.0	HBC	76E1
.550	1.587	.325	-.070	.050	10.0	HBC	76E1
.555	1.590	.328	.040	.150	15.0	HBC	76E1
.565	1.594	.333	.200	.190	15.0	HBC	76E1
.567	1.595	.334	.140	.090	5.0	HBC	78C1
.575	1.598	.338	-.160	.160	15.0	HBC	76E1
.585	1.603	.342	-.130	.210	15.0	HBC	76E1
.590	1.605	.345	.180	.100	5.0	HBC	78C1
.595	1.607	.347	-.270	.200	15.0	HBC	76E1
.623	1.620	.361	-.030	.090	5.0	HBC	78C1
.656	1.635	.376	-.140	.120	5.0	HBC	78C1
.678	1.645	.387	-.210	.100	5.0	HBC	78C1
.699	1.655	.396	-.150	.130	5.0	HBC	78C1
.737	1.672	.413	-.370	.080	5.0	HBC	78C1
.791	1.698	.437	-.230	.090	5.0	HBC	78C1

THE NUMBER OF DATA POINTS IS 22

KL P=S0 PI+ LEGENDRE COEFFICIENTS A2/A0

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	A	ERROR	SYS ER (0/0)	TEC	REF
.462	1.550	.280	-.020	.130	5.0	HBC	78C1
.480	1.557	.289	-.140	.180	15.0	HBC	76E1
.498	1.565	.299	.150	.110	5.0	HBC	78C1
.521	1.575	.310	.520	.110	5.0	HBC	78C1
.525	1.577	.312	-.040	.190	15.0	HBC	76E1
.535	1.581	.318	.020	.100	15.0	HBC	76E1
.544	1.585	.322	.060	.190	5.0	HBC	78C1
.545	1.585	.323	.400	.190	15.0	HBC	76E1
.550	1.587	.325	.230	.070	10.0	HBC	76E1
.555	1.590	.328	.230	.210	15.0	HBC	76E1
.565	1.594	.333	.470	.260	15.0	HBC	76E1
.567	1.595	.334	.610	.130	5.0	HBC	78C1
.575	1.598	.338	.060	.210	15.0	HBC	76E1
.585	1.603	.342	.710	.260	15.0	HBC	76E1
.590	1.605	.345	.780	.120	5.0	HBC	78C1
.595	1.607	.347	.570	.250	15.0	HBC	76E1
.623	1.620	.361	.920	.100	5.0	HBC	78C1
.656	1.635	.376	1.100	.110	5.0	HBC	78C1
.678	1.645	.387	1.450	.110	5.0	HBC	78C1
.699	1.655	.396	1.790	.130	5.0	HBC	78C1
.737	1.672	.413	1.840	.070	5.0	HBC	78C1
.791	1.698	.437	1.410	.070	5.0	HBC	78C1

THE NUMBER OF DATA POINTS IS 22

KL P=S0 PI+ LEGENDRE COEFFICIENTS A3/A0

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	A	ERROR	SYS ER (0/0)	TEC	REF
.462	1.550	.280	-.380	.150	5.0	HBC	78C1
.480	1.557	.289	.100	.200	15.0	HBC	76E1
.498	1.565	.299	-.140	.130	5.0	HBC	78C1
.520	1.574	.310	-.490	.230	15.0	HBC	76E1
.521	1.575	.310	-.040	.140	5.0	HBC	78C1
.535	1.581	.318	.170	.230	15.0	HBC	76E1
.544	1.585	.322	-.020	.120	5.0	HBC	78C1
.545	1.585	.323	-.430	.230	15.0	HBC	76E1
.550	1.587	.325	-.050	.080	10.0	HBC	78E1
.555	1.590	.328	.320	.230	15.0	HBC	76E1
.565	1.594	.333	.260	.300	15.0	HBC	76E1
.567	1.595	.334	.170	.130	5.0	HBC	78C1
.575	1.598	.338	-.080	.250	15.0	HBC	76E1
.585	1.603	.342	-.120	.310	15.0	HBC	76E1
.590	1.605	.345	.320	.130	5.0	HBC	78C1
.595	1.607	.347	-.280	.290	15.0	HBC	76E1
.623	1.620	.361	-.150	.120	5.0	HBC	78C1
.656	1.635	.376	.210	.160	5.0	HBC	78C1
.678	1.645	.387	.060	.130	5.0	HBC	78C1
.699	1.655	.396	.150	.170	5.0	HBC	78C1
.737	1.672	.413	0.000	.080	5.0	HBC	78C1
.791	1.698	.437	-.400	.100	5.0	HBC	78C1

THE NUMBER OF DATA POINTS IS 22

KL P=S0 PI+ LEGENDRE COEFFICIENTS A4/A0

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	A	ERROR	SYS ER (0/0)	TEC	REF
.462	1.550	.280	-.210	.170	5.0	HBC	78C1
.498	1.565	.299	-.280	.150	5.0	HBC	78C1
.521	1.575	.310	.210	.150	5.0	HBC	78C1
.544	1.585	.322	.060	.130	5.0	HBC	78C1
.550	1.587	.325	.060	.090	10.0	HBC	78E1
.555	1.590	.328	.450	.250	15.0	HBC	76E1
.565	1.594	.333	.150	.340	15.0	HBC	76E1
.567	1.595	.334	.260	.150	5.0	HBC	78C1
.575	1.598	.338	-.110	.290	15.0	HBC	76E1
.585	1.603	.342	.280	.380	15.0	HBC	76E1
.590	1.605	.345	.330	.150	5.0	HBC	78C1
.595	1.607	.347	.090	.350	15.0	HBC	76E1
.623	1.620	.361	.260	.150	5.0	HBC	78C1
.656	1.635	.376	.170	.150	5.0	HBC	78C1
.678	1.645	.387	.490	.150	5.0	HBC	78C1
.699	1.655	.396	.640	.150	5.0	HBC	78C1
.737	1.672	.413	.140	.080	5.0	HBC	78C1
.791	1.698	.437	-.310	.100	5.0	HBC	78C1

THE NUMBER OF DATA POINTS IS 18

KL P=L0 PI+ LEGENDRE COEFFICIENTS B1/B0

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	B	ERROR	SYS ER (0/0)	TEC	REF
.462	1.550	.280	.290	.120	5.0	HBC	78C1
.470	1.553	.284	.280	.230	15.0	HBC	76E1
.498	1.565	.299	.080	.120	5.0	HBC	78C1
.500	1.566	.300	.010	.290	15.0	HBC	76E1
.515	1.572	.307	.200	.280	15.0	HBC	76E1
.521	1.575	.310	.210	.100	5.0	HBC	78C1
.525	1.577	.312	.480	.260	15.0	HBC	76E1
.535	1.581	.318	.030	.210	15.0	HBC	76E1
.544	1.585	.322	.060	.100	5.0	HBC	78C1
.545	1.585	.323	.190	.200	15.0	HBC	76E1
.550	1.587	.325	.230	.070	10.0	HBC	78E1
.555	1.590	.328	.180	.160	15.0	HBC	76E1
.565	1.594	.333	.040	.170	15.0	HBC	76E1
.567	1.595	.334	.030	.110	5.0	HBC	78C1
.575	1.598	.338	.010	.180	15.0	HBC	76E1
.585	1.603	.342	.940	.210	15.0	HBC	76E1
.590	1.605	.345	.180	.110	5.0	HBC	78C1
.595	1.607	.347	.060	.240	15.0	HBC	76E1
.623	1.620	.361	.140	.080	5.0	HBC	78C1
.656	1.635	.376	.330	.100	5.0	HBC	78C1
.678	1.645	.387	.200	.110	5.0	HBC	78C1
.699	1.655	.396	-.010	.110	5.0	HBC	78C1
.737	1.672	.413	.060	.070	5.0	HBC	78C1
.791	1.698	.437	-.060	.070	5.0	HBC	78C1

THE NUMBER OF DATA POINTS IS 24

KL P=L0 PI+ LEGENDRE COEFFICIENTS B2/B0

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	B	ERROR	SYS ER (0/0)	TEC	REF
.462	1.550	.280	.080	.110	5.0	HBC	78C1
.470	1.553	.284	.130	.240	15.0	HBC	76E1
.498	1.565	.299	.180	.110	5.0	HBC	78C1
.500	1.566	.300	.320	.230	15.0	HBC	76E1
.515	1.572	.307	-.280	.240	15.0	HBC	76E1
.521	1.575	.310	.130	.090	5.0	HBC	78C1
.525	1.577	.312	.550	.210	15.0	HBC	76E1
.535	1.581	.318	.330	.170	15.0	HBC	76E1
.544	1.585	.322	.020	.090	5.0	HBC	78C1
.545	1.585	.323	.030	.170	15.0	HBC	76E1
.550	1.587	.325	.110	.060	10.0	HBC	78E1
.555	1.590	.328	-.070	.140	15.0	HBC	76E1
.565	1.594	.333	-.120	.140	15.0	HBC	76E1
.567	1.595	.334	-.020	.100	5.0	HBC	78C1
.575	1.598	.338	-.040	.150	15.0	HBC	76E1
.585	1.603	.342	.410	.190	15.0	HBC	76E1
.590	1.605	.345	.020	.100	5.0	HBC	78C1
.595	1.607	.347	-.010	.220	15.0	HBC	76E1
.623	1.620	.361	-.010	.070	5.0	HBC	78C1
.656	1.635	.376	-.140	.090	5.0	HBC	78C1
.678	1.645	.387	-.300	.100	5.0	HBC	78C1
.699	1.655	.396	-.220	.100	5.0	HBC	78C1
.737	1.672	.413	-.350	.060	5.0	HBC	78C1
.791	1.698	.437	-.280	.060	5.0	HBC	78C1

THE NUMBER OF DATA POINTS IS 24

KL P=L0 PI+ LEGENDRE COEFFICIENTS B3/B0

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	B	ERROR	SYS ER (0/0)	TEC	REF
.462	1.550	.280	-.130	.080	5.0	HBC	78C1
.470	1.553	.284	-.220	.220	15.0	HBC	76E1
.498	1.565	.299	.040	.090	5.0	HBC	78C1
.500	1.566	.300	-.100	.200	15.0	HBC	76E1
.515	1.572	.307	-.040	.210	15.0	HBC	76E1
.521	1.575	.310	.060	.070	5.0	HBC	78C1
.525	1.577	.312	.100	.170	15.0	HBC	76E1
.535	1.581	.318	.030	.140	15.0	HBC	76E1
.544	1.585	.322	-.070	.080	5.0	HBC	78C1
.545	1.585	.323	-.050	.150	15.0	HBC	76E1
.550	1.587	.325	-.050	.050	10.0	HBC	78E1
.555	1.590	.328	-.040	.130	15.0	HBC	76E1
.565	1.594	.333	-.180	.120	15.0	HBC	76E1
.567	1.595	.334	.020	.080	5.0	HBC	78C1
.575	1.598	.338	-.140	.130	15.0	HBC	76E1
.585	1.603	.342	.090	.150	15.0	HBC	76E1
.590	1.605	.345	.040	.080	5.0	HBC	78C1
.595	1.607	.347	.030	.190	15.0	HBC	76E1
.623	1.620	.361	-.010	.060	5.0	HBC	78C1
.656	1.635	.376	0.000	.070	5.0	HBC	78C1
.678	1.645	.387	-.030	.080	5.0	HBC	78C1
.699	1.655	.396	.040	.080	5.0	HBC	78C1
.737	1.672	.413	.180	.050	5.0	HBC	78C1
.791	1.698	.437	.080	.050	5.0	HBC	78C1

THE NUMBER OF DATA POINTS IS 24

KL P=L0 PI+ LEGENDRE COEFFICIENTS B4/B0

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	B	ERROR	SYS ER (0/0)	TEC	REF
.462	1.550	.280	-.050	.080	5.0	HBC	78C1
.470	1.553	.284	-.230	.140	15.0	HBC	76E1
.498	1.565	.299	.020	.070	5.0	HBC	78C1
.500	1.566	.300	-.140	.180	15.0	HBC	76E1
.515	1.572	.307	-.250	.180	15.0	HBC	76E1
.521	1.575	.310	-.050	.060	5.0	HBC	78C1
.525	1.577	.312	-.070	.130	15.0	HBC	76E1
.535	1.581	.318	.040	.110	15.0	HBC	76E1
.544	1.585	.322	.030	.060	5.0	HBC	78C1
.545	1.585	.323	.150	.110	15.0	HBC	76E1
.550	1.587	.325	.010	.040	10.0	HBC	78E1
.555	1.590	.328	0.000	.100	15.0	HBC	76E1
.565	1.594	.333	-.110	.110	15.0	HBC	76E1
.567	1.595	.334	-.100	.050	5.0	HBC	78C1
.575	1.598	.338	-.200	.110	15.0	HBC	76E1
.585	1.603	.342	-.200	.120	15.0	HBC	76E1
.590	1.605	.345	-.170	.070	5.0	HBC	78C1
.595	1.607	.347	.050	.160	15.0	HBC	76E1
.623	1.620	.361	-.070	.050	5.0	HBC	78C1
.656	1.635	.376	-.070	.060	5.0	HBC	78C1
.678	1.645	.387	-.060	.070	5.0	HBC	78C1
.699	1.655	.396	-.150	.070	5.0	HBC	78C1
.737	1.672	.413	-.210	.050	5.0	HBC	78C1
.791	1.698	.437	-.130	.040	5.0	HBC	78C1

THE NUMBER OF DATA POINTS IS 24

KL P=S0 PI+ LEGENDRE COEFFICIENTS B1/B0

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	B	ERROR	SYS ER (0/0)	TEC	REF
.462	1.550	.280	.550	.270	5.0	HBC	78C1
.480	1.557	.289	0.000	.420	15.0	HBC	76E1
.498	1.565	.299	.650	.240	5.0	HBC	78C1
.520	1.574	.310	-.240	.460	15.0	HBC	76E1
.521	1.575	.310	-.020	.270	5.0	HBC	78C1
.535	1.581	.318	-.220	.540	15.0	HBC	76E1
.544	1.585	.322	.410	.230	5.0	HBC	78C1
.545	1.585	.323	-.190	.530	15.0	HBC	76E1
.550	1.587	.325	.260	.170	10.0	HBC	78E1
.555	1.590	.328	-.030	.450	15.0	HBC	76E1
.565	1.594	.333	.740	.640	15.0	HBC	76E1
.567	1.595	.334	.600	.240	5.0	HBC	78C1
.575	1.598	.338	1.110	.500	15.0	HBC	76E1
.585	1.603	.342	1.090	.480	15.0	HBC	76E1
.590	1.605	.345	.590	.240	5.0	HBC	78C1
.595	1.607	.347	.790	.610	15.0	HBC	76E1
.623	1.620	.361	.480	.230	5.0	HBC	78C1
.656	1.635	.376	.210	.230	5.0	HBC	78C1
.678	1.645	.387	.400	.250	5.0	HBC	78C1
.699	1.655	.396	.780	.270	5.0	HBC	78C1
.737	1.672	.413	.340	.140	5.0	HBC	78C1
.791	1.698	.437	-.070	.200	5.0	HBC	78C1

THE NUMBER OF DATA POINTS IS 22

KL P=S0 PI+ LEGENDRE COEFFICIENTS B2/B0

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	B	ERROR	SYS ER (0/0)	TEC	REF
.462	1.550	.280	-.320	.210	5.0	HBC	78C1
.480	1.557	.289	-.350	.280	15.0	HBC	76E1
.498	1.565	.299	-.050	.200	5.0	HBC	78C1
.520	1.574	.310	-.480	.350	15.0	HBC	76E1
.521	1.575	.310	-.050	.230	5.0	HBC	78C1
.535	1.581	.318	-.240	.420	15.0	HBC	76E1
.544	1.585	.322	.030	.170	5.0	HBC	78C1
.545	1.585	.323	.380	.440	15.0	HBC	76E1
.550	1.587	.325	-.100	.130	10.0	HBC	78E1
.555	1.590	.328	-.540	.310	15.0	HBC	76E1
.565	1.594	.333	-.040	.500	15.0	HBC	76E1
.567	1.595	.334	.160	.210	5.0	HBC	78C1
.575	1.598	.338	.610	.410	15.0	HBC	76E1
.585	1.603	.342	.140	.480	15.0	HBC	76E1
.590	1.605	.345	-.500	.210	5.0	HBC	78C1
.595	1.607	.347	.380	.540	15.0	HBC	76E1
.623	1.620	.361	-.410	.190	5.0	HBC	78C1
.656	1.635	.376	-.510	.220	5.0	HBC	78C1
.678	1.645	.387	-.060	.250	5.0	HBC	78C1
.699	1.655	.396	-.170	.250	5.0	HBC	78C1
.737	1.672	.413	.430	.170	5.0	HBC	78C1
.791	1.698	.437	.650	.200	5.0	HBC	78C1

THE NUMBER OF DATA POINTS IS 22

KL P=S0 PI+ LEGENDRE COEFFICIENTS B3/B0

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	B	ERROR	SYS ER (0/0)	TEC	REF
.462	1.550	.280	-.240	.190	5.0	HBC	78C1
.480	1.557	.289	.120	.250	15.0	HBC	76E1
.498	1.565	.299	-.020	.160	5.0	HBC	78C1
.520	1.574	.310	-.170	.320	15.0	HBC	76E1
.521	1.575	.310	.020	.190	5.0	HBC	78C1
.535	1.581	.318	-.110	.350	15.0	HBC	76E1
.544	1.585	.322	0.000	.150	5.0	HBC	78C1
.545	1.585	.323	-.520	.360	15.0	HBC	76E1
.550	1.587	.325	-.100	.110	10.0	HBC	78E1
.555	1.590	.328	-.090	.290	15.0	HBC	76E1
.565	1.594	.333	-.120	.470	15.0	HBC	76E1
.567	1.595	.334	.160	.180	5.0	HBC	78C1
.575	1.598	.338	-.360	.350	15.0	HBC	76E1
.585	1.603	.342	-.080	.440	15.0	HBC	76E1
.590	1.605	.345	0.000	.190	5.0	HBC	78C1
.595	1.607	.347	.530	.490	15.0	HBC	76E1
.623	1.620	.361	.200	.170	5.0	HBC	78C1
.656	1.635	.376	-.040	.190	5.0	HBC	78C1
.678	1.645	.387	0.000	.200	5.0	HBC	78C1
.699	1.655	.396	.230	.190	5.0	HBC	78C1
.737	1.672	.413	.200	.110	5.0	HBC	78C1
.791	1.698	.437	.390	.160	5.0	HBC	78C1

THE NUMBER OF DATA POINTS IS 22

KL P=S0 PI+ LEGENDRE COEFFICIENTS B4/B0

PLAB (GEV/C)	ECM (GEV)	PCM (GEV/C)	B	ERROR	SYS ER (0/0)	TEC	REF
.462	1.550	.280	-.250	.170	5.0	HBC	78C1
.498	1.565	.299	.030	.130	5.0	HBC	78C1
.521	1.575	.310	-.110	.170	5.0	HBC	78C1
.544	1.585	.322	-.150	.150	5.0	HBC	78C1
.550	1.587	.325	-.160	.100	10.0	HBC	78E1
.555	1.590	.328	-.400	.250	15.0	HBC	76E1
.565	1.594	.333	-.420	.390	15.0	HBC	76E1
.567	1.595	.334	.130	.170	5.0	HBC	78C1
.575	1.598	.338	-.080	.260	15.0	HBC	76E1
.585	1.603	.342	-.280	.350	15.0	HBC	76E1
.590	1.605	.345	-.340	.150	5.0	HBC	78C1
.595	1.607	.347	.320	.390	15.0	HBC	76E1
.623	1.620	.361	.100	.140	5.0	HBC	78C1
.656	1.635	.376	.030	.170	5.0	HBC	78C1
.678	1.645	.387	-.060	.190	5.0	HBC	78C1
.699	1.655	.396	.160	.180	5.0	HBC	78C1
.737	1.672	.413	.140	.100	5.0	HBC	78C1
.791	1.698	.437	.290	.130	5.0	HBC	78C1

THE NUMBER OF DATA POINTS IS 18

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