### 

Event generator

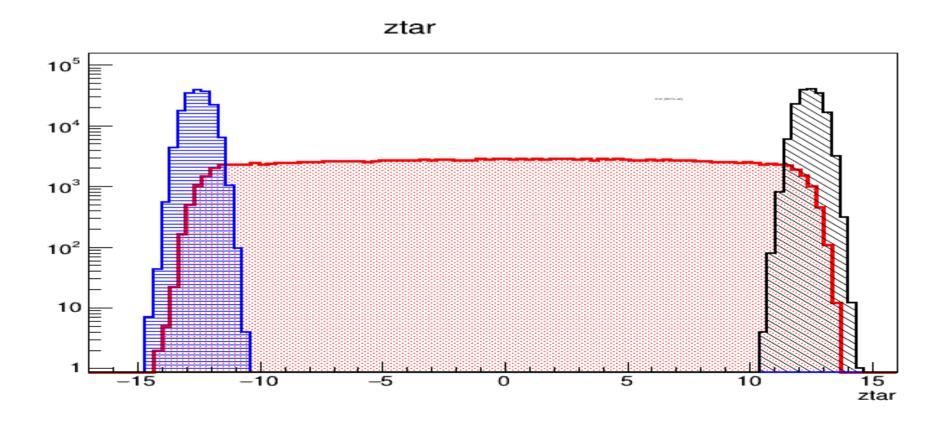
Cross section table

Weight

Compare

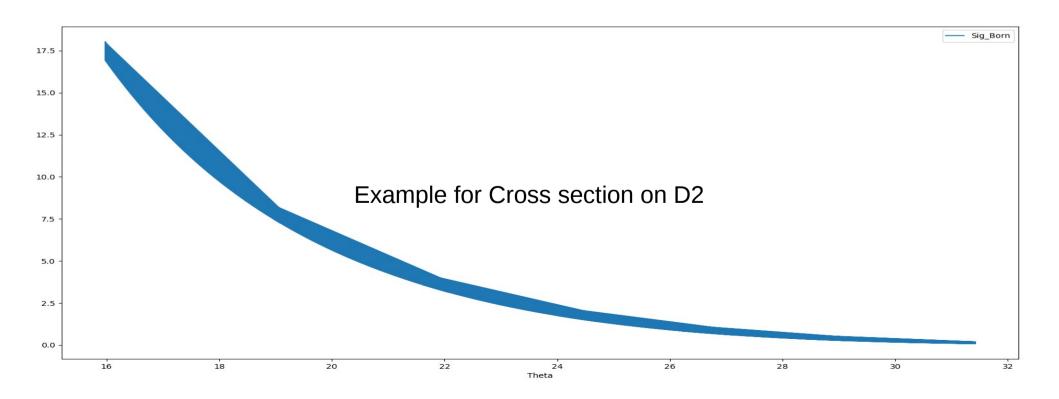
#### **Event Generator**

- For A gas target generate events from inside the cell
- For the end caps



#### Cross section table

- Dave Gaskell provided edited version of his externals table producer
  - Bodek fit to old SLAC data with a simple parametrization for the EMC effect. For the QE contribution, Peter Bosted's super-scaling fit
  - Radiative → Full 2-D Mo and Tsai integral

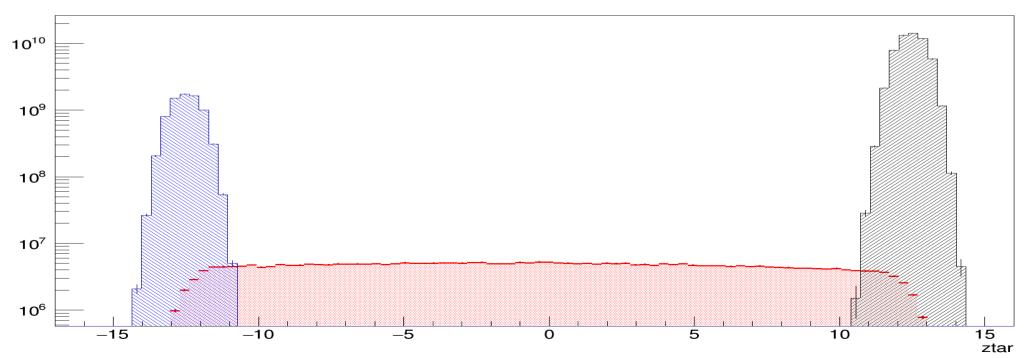


## Weighting

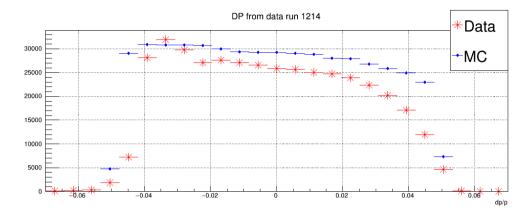
 Interpolate between 4 points to determine the cross section for the event

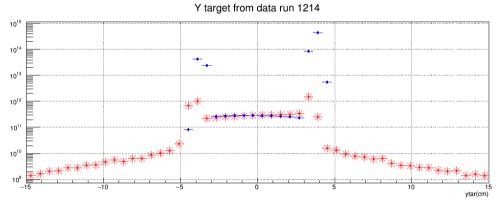
10.600	20.830	7.2914	0.92223
10.600	20.930	7.1027	0.92386
10.600	20.830	7.2199	0.92480
10.600	20.930	7.0319	0.92643

#### ztar weighted



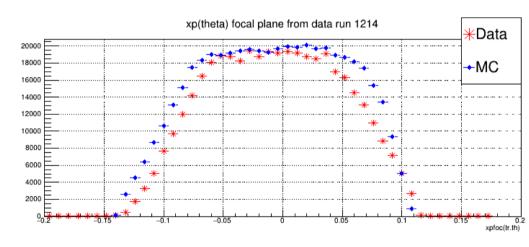
## Comparison

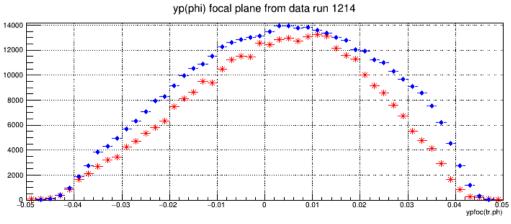




Cuts applied to Data E/p > 0.7 Cer>1500 Beta > 0.5

For non y\_tar plots abs(Vz) < 9cm





# Sql MARATHONanalysis

MySQL [triton	<pre>lySQL [triton-work]&gt; select * from MARATHONanalysis WHERE run_number &lt;=1225;</pre>									
run_number	current	charge	trigger_id	livetime	trigger_counts	trigger_events	elist			
1206 1207 1208 1209 1210 1211 1212 1213 1214	10.12   10.12   10.12   20.12   20.12   20.38   20.38   20.38	5405.44 3961.46 6288.35 26109.9 33273 26967 20395.8 23263.9 19808.3	DL.bit2	+	786   19715   158082   185341   308657   249219   189468   291547   257414	785 19513 150087 180332 297538 240195 182729 277545 243726	/v/lustre2/expphy/volatile/halla/triton/MARATHON_elist/elist/bcm1206_0_5.root   /v/lustre2/expphy/volatile/halla/triton/MARATHON_elist/elist/bcm1207_0_5.root   /v/lustre2/expphy/volatile/halla/triton/MARATHON_elist/elist/bcm1208_0_5.root   /v/lustre2/expphy/volatile/halla/triton/MARATHON_elist/elist/bcm1210_0_5.root   /v/lustre2/expphy/volatile/halla/triton/MARATHON_elist/elist/bcm1211_0_5.root   /v/lustre2/expphy/volatile/halla/triton/MARATHON_elist/elist/bcm1212_0_5.root   /v/lustre2/expphy/volatile/halla/triton/MARATHON_elist/elist/bcm1213_0_5.root   /v/lustre2/expphy/volatile/halla/triton/MARATHON_elist/elist/bcm1213_0_5.root			
1215	20.38	30151.7	DL.bit2	0.946152	402376	380709	/v/lustre2/expphy/volatile/halla/triton/MARATHON_elist/elist/bcm1215_0_5.root			