

## *Hall A LHRS cabling map (latest updates in red)*

### *LHRS Pion Rejecter*

Detector position / PMT Labels	Online GUI labels	Upper Patch panel Name & position (Delay line if other)	Flat Cable name	Flat cable Wire No	ADC FB BOT Slot-ch.	HV Slot-ch
PiR-1L	PR1 0	CHARLIE A-1	PiR (1-16)L	1	20 - 0	3-0
PiR-2L	PR1 1	CHARLIE A-2	PiR (1-16)L	2	20 - 1	3-1
PiR-3L	PR1 2	CHARLIE A-3	PiR (1-16)L	3	20 - 2	3-2
PiR-4L	PR1 3	CHARLIE A-4	PiR (1-16)L	4	20 - 3	3-3
PiR-5L	PR1 4	CHARLIE A-5	PiR (1-16)L	5	20 - 4	3-4
PiR-6L	PR1 5	CHARLIE A-6	PiR (1-16)L	6	20 - 5	3-5
PiR-7L	PR1 6	CHARLIE A-7	PiR (1-16)L	7	20 - 6	3-6
PiR-8L	PR1 7	CHARLIE A-8	PiR (1-16)L	8	20 - 7	3-7
PiR-9L	PR1 8	CHARLIE A-9	PiR (1-16)L	9	20 - 8	3-8
PiR-10L	PR1 9	CHARLIE A-10	PiR (1-16)L	10	20 - 9	3-9
PiR-11L	PR1 10	CHARLIE A-11	PiR (1-16)L	11	20 - 10	3-10
PiR-12L	PR1 11	CHARLIE A-12	PiR (1-16)L	12	20 - 11	3-11
PiR-13L	PR1 12	CHARLIE A-13	PiR (1-16)L	13	20 - 12	4-0
PiR-14L	PR1 13	CHARLIE A-14	PiR (1-16)L	14	20 - 13	4-1
PiR-15L	PR1 14	CHARLIE A-15	PiR (1-16)L	15	20 - 14	4-2
PiR-16L	PR1 15	CHARLIE A-16	PiR (1-16)L	16	20 - 15	4-3
PiR-1R	PR1 17	CHARLIE B-1	PiR (1-16)R	1	18 - 32	10-0
PiR-2R	PR1 18	CHARLIE B-2	PiR (1-16)R	2	18 - 33	10-1
PiR-3R	PR1 19	CHARLIE B-3	PiR (1-16)R	3	18 - 34	10-2
PiR-4R	PR1 20	CHARLIE B-4	PiR (1-16)R	4	18 - 35	10-3
PiR-5R	PR1 21	CHARLIE B-5 (ALFRED A-4)	PiR (1-16)R	5	18 - 36	10-4
PiR-6R	PR1 22	CHARLIE B-6	PiR (1-16)R	6	18 - 37	10-5
PiR-7R	PR1 23	CHARLIE B-7	PiR (1-16)R	7	18 - 38	10-6
PiR-8R	PR1 24	CHARLIE B-8	PiR (1-16)R	8	18 - 39	11-0
PiR-9R	PR1 25	CHARLIE B-9	PiR (1-16)R	9	18 - 40	11-1
PiR-10R	PR1 26	CHARLIE B-10	PiR (1-16)R	10	18 - 41	11-2
PiR-11R	PR1 27	CHARLIE B-11	PiR (1-16)R	11	18 - 42	11-3
PiR-12R	PR1 28	CHARLIE B-12	PiR (1-16)R	12	18 - 43	11-4
PiR-13R	PR1 29	CHARLIE B-13	PiR (1-16)R	13	18 - 44	11-5
PiR-14R	PR1 30	CHARLIE B-14	PiR (1-16)R	14	18 - 45	11-6
PiR-15R	PR1 31	CHARLIE B-15 (ALFRED B-12)	PiR (1-16)R	15	18 - 46	11-7
PiR-16R	PR1 32	CHARLIE B-16	PiR (1-16)R	16	18 - 47	11-8
PiR-18L	PR2 0	CHARLIE C-1	PiR (18-33)L	1	18 - 0	4-5
PiR-19L	PR2 1	CHARLIE C-2	PiR (18-33)L	2	18 - 1	4-6
PiR-20L	PR2 2	CHARLIE C-3	PiR (18-33)L	3	18 - 2	4-7
PiR-21L	PR2 3	CHARLIE C-4	PiR (18-33)L	4	18 - 3	4-8
PiR-22L	PR2 4	CHARLIE C-5	PiR (18-33)L	5	18 - 4	4-9
PiR-23L	PR2 5	CHARLIE C-6	PiR (18-33)L	6	18 - 5	4-10
PiR-24L	PR2 6	CHARLIE C-7	PiR (18-33)L	7	18 - 6	4-11
PiR-25L	PR2 7	CHARLIE C-8	PiR (18-33)L	8	18 - 7	5-0
PiR-26L	PR2 8	CHARLIE C-9	PiR (18-33)L	9	18 - 8	5-1
PiR-27L	PR2 9	CHARLIE C-10	PiR (18-33)L	10	18 - 9	5-2

PiR-28L	PR2 10	CHARLIE C-11	PiR (18-33)L	11	18 - 10	5-3
PiR-29L	PR2 11	CHARLIE C-12	PiR (18-33)L	12	18 - 11	5-4
PiR-30L	PR2 12	CHARLIE C-13	PiR (18-33)L	13	18 - 12	5-5
PiR-31L	PR2 13	CHARLIE C-14	PiR (18-33)L	14	18 - 13	5-6
PiR-32L	PR2 14	CHARLIE C-15 (ALFRED C-11)	PiR (18-33)L	15	18 - 14	5-7
PiR-33L	PR2 15	CHARLIE C-16 (ALFRED C-5)	PiR (18-33)L	16	18 - 15	5-8
PiR-18R	PR2 17	CHARLIE D-1	PiR (18-33)R	1	19 - 32	9-0
PiR-19R	PR2 18	CHARLIE D-2	PiR (18-33)R	2	19 - 33	9-1
PiR-20R	PR2 19	CHARLIE D-3	PiR (18-33)R	3	19 - 34	9-2
PiR-21R	PR2 20	CHARLIE D-4	PiR (18-33)R	4	19 - 35	9-3
PiR-22R	PR2 21	CHARLIE D-5	PiR (18-33)R	5	19 - 36	9-4
PiR-23R	PR2 22	CHARLIE D-6	PiR (18-33)R	6	19 - 37	9-5
PiR-24R	PR2 23	CHARLIE D-7	PiR (18-33)R	7	19 - 38	9-6
PiR-25R	PR2 24	CHARLIE D-8	PiR (18-33)R	8	19 - 39	9-7
PiR-26R	PR2 25	CHARLIE D-9	PiR (18-33)R	9	19 - 40	9-8
PiR-27R	PR2 26	CHARLIE D-10	PiR (18-33)R	10	19 - 41	9-9
PiR-28R	PR2 27	CHARLIE D-11	PiR (18-33)R	11	19 - 42	9-10
PiR-29R	PR2 28	CHARLIE D-12	PiR (18-33)R	12	19 - 43	9-11
PiR-30R	PR2 29	CHARLIE D-13	PiR (18-33)R	13	19 - 44	10-7
PiR-31R	PR2 30	CHARLIE D-14	PiR (18-33)R	14	19 - 45	10-8
PiR-32R	PR2 31	CHARLIE D-15 (ALFRED A-3)	PiR (18-33)R	15	19 - 46	10-9
PiR-33R	PR2 32	CHARLIE D-16	PiR (18-33)R	16	19 - 47	10-10
PiR-17L	PR1 16	DEX A-1 (ALFRED A-1)	PiR (17,34)L,R,S	1	20 - 32	4-4
PiR-17R	PR1 33	DEX A-2	PiR (17,34)L,R,S	2	20 - 33	11-9
PiR-34L	PR2 16	DEX A-3	PiR (17,34)L,R,S	3	20 - 34	5-9
PiR-34R	PR2 33	DEX A-4	PiR (17,34)L,R,S	4	20 - 35	10-11
Sum-1Lay		ALFRED C-1	PiR (17,34)L,R,S	5	20 - 36	
Sum-2Lay		ALFRED C-2	PiR (17,34)L,R,S	6	20 - 37	
Sum-Total		ALFRED B-8	PiR (17,34)L,R,S	7	20 - 38	

### *LHRS S2m and old S1*

Detector position / PMT Labels	Upper Patch panel Name & position (Delay line if other)	Flat Cable name	Flat cable Wire No	ADC FB BOT Slot-ch.	TDC FastBus Slot-ch.	HV Slot-ch
S2m-1L	ALFRED A-1	S2m(1L-16L)	1	16 - 0	11 - 0	0-0
S2m-2L	ALFRED A-2	S2m(1L-16L)	2	16 - 1	11 - 1	0-1
S2m-3L	ALFRED A-3	S2m(1L-16L)	3	16 - 2	11 - 2	0-2
S2m-4L	ALFRED A-4	S2m(1L-16L)	4	16 - 3	11 - 3	0-3
S2m-5L	ALFRED A-5	S2m(1L-16L)	5	16 - 4	11 - 4	5-10
S2m-6L	ALFRED A-6	S2m(1L-16L)	6	16 - 5	11 - 5	5-11
S2m-7L	ALFRED A-7	S2m(1L-16L)	7	16 - 6	11 - 6	2-11
S2m-8L	ALFRED A-8	S2m(1L-16L)	8	16 - 7	11 - 7	2-10
S2m-9L	ALFRED A-9	S2m(1L-16L)	9	16 - 8	11 - 8	0-8
S2m-10L	ALFRED A-10	S2m(1L-16L)	10	16 - 9	11 - 9	0-9
S2m-11L	ALFRED A-11	S2m(1L-16L)	11	16 - 10	11 - 10	0-10
S2m-12L	ALFRED A-12	S2m(1L-16L)	12	16 - 11	11 - 11	0-11
S2m-13L	ALFRED A-13	S2m(1L-16L)	13	16 - 12	11 - 12	13-0
S2m-14L	ALFRED A-14	S2m(1L-16L)	14	16 - 13	11 - 13	13-1
S2m-15L	ALFRED A-15	S2m(1L-16L)	15	16 - 14	11 - 14	13-2

S2m-16L	<i>ALFRED A-16</i>	S2m(1L-16L)	16	16 - 15	11 - 15	13-3
S2m-1R	<i>ALFRED B-1</i>	S2m(1R-16R)	1	16 - 32	11 - 16	12-0
S2m-2R	<i>ALFRED B-2</i>	S2m(1R-16R)	2	16 - 33	11 - 17	12-1
S2m-3R	<i>ALFRED B-3</i>	S2m(1R-16R)	3	16 - 34	11 - 18	12-2
S2m-4R	<i>ALFRED B-4</i>	S2m(1R-16R)	4	16 - 35	11 - 19	12-3
S2m-5R	<i>ALFRED B-5</i>	S2m(1R-16R)	5	16 - 36	11 - 20	12-4
S2m-6R	<i>ALFRED B-6</i>	S2m(1R-16R)	6	16 - 37	11 - 21	12-5
S2m-7R	<i>ALFRED B-7</i>	S2m(1R-16R)	7	16 - 38	11 - 22	12-6
S2m-8R	<i>ALFRED B-8</i>	S2m(1R-16R)	8	16 - 39	11 - 23	12-7
S2m-9R	<i>ALFRED B-9</i>	S2m(1R-16R)	9	16 - 40	11 - 24	12-8
S2m-10R	<i>ALFRED B-10</i>	S2m(1R-16R)	10	16 - 41	11 - 25	12-9
S2m-11R	<i>ALFRED B-11</i>	S2m(1R-16R)	11	16 - 42	11 - 26	12-10
S2m-12R	<i>ALFRED B-12</i>	S2m(1R-16R)	12	16 - 43	11 - 27	12-11
S2m-13R	<i>ALFRED B-13</i>	S2m(1R-16R)	13	16 - 44	11 - 28	13-4
S2m-14R	<i>ALFRED B-14</i>	S2m(1R-16R)	14	16 - 45	11 - 29	13-5
S2m-15R	<i>ALFRED B-15</i>	S2m(1R-16R)	15	16 - 46	11 - 30	13-6
S2m-16R	<i>ALFRED B-16</i>	S2m(1R-16R)	16	16 - 47	11 - 31	13-7
<i>S1-1L</i>	<i>ALFRED C-1</i>	<i>S1(1-6)L,R</i>	<i>1</i>	<i>18 - 0</i>		<i>1-0</i>
<i>S1-2L</i>	<i>ALFRED C-2</i>	<i>S1(1-6)L,R</i>	<i>2</i>	<i>18 - 1</i>		<i>1-1</i>
<i>S1-3L</i>	<i>ALFRED C-3</i>	<i>S1(1-6)L,R</i>	<i>3</i>	<i>18 - 2</i>		<i>1-2</i>
<i>S1-4L</i>	<i>ALFRED C-4</i>	<i>S1(1-6)L,R</i>	<i>4</i>	<i>18 - 3</i>		<i>1-3</i>
<i>S1-5L</i>	<i>ALFRED C-5</i>	<i>S1(1-6)L,R</i>	<i>5</i>	<i>18 - 4</i>		<i>1-4</i>
<i>S1-6L</i>	<i>ALFRED C-6</i>	<i>S1(1-6)L,R</i>	<i>6</i>	<i>18 - 5</i>		<i>1-5</i>
<i>S1-1R</i>	<i>ALFRED C-7</i>	<i>S1(1-6)L,R</i>	<i>7</i>	<i>18 - 6</i>		<i>1-6</i>
<i>S1-2R</i>	<i>ALFRED C-8</i>	<i>S1(1-6)L,R</i>	<i>8</i>	<i>18 - 7</i>		<i>1-7</i>
<i>S1-3R</i>	<i>ALFRED C-9</i>	<i>S1(1-6)L,R</i>	<i>9</i>	<i>18 - 8</i>		<i>1-8</i>
<i>S1-4R</i>	<i>ALFRED C-10</i>	<i>S1(1-6)L,R</i>	<i>10</i>	<i>18 - 9</i>		<i>1-9</i>
<i>S1-5R</i>	<i>ALFRED C-11</i>	<i>S1(1-6)L,R</i>	<i>11</i>	<i>18 - 10</i>		<i>1-10</i>
<i>S1-6R</i>	<i>ALFRED C-12</i>	<i>S1(1-6)L,R</i>	<i>12</i>	<i>18 - 11</i>		<i>1-11</i>

NOTE: S1 is not active anymore.

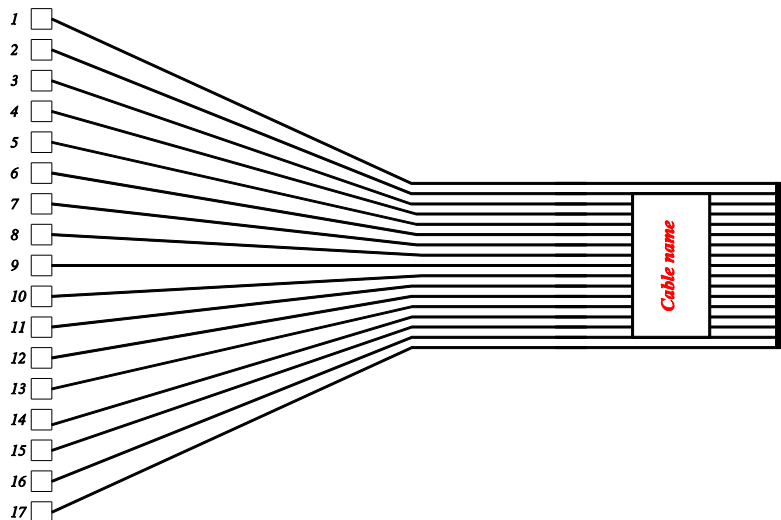
### ***LHRS Gas Cerenkov&S0***

Detector position	Patch panel Name&posit.	Flat Cable name	Flat cable Wire No	ADC FB BOT Slot-ch.	TDC Fast bus Slot -ch.	HV Slot-ch
Gas Cer-1	ALFRED D-1	Gas,Sum&S0	1	19 - 0	11 - 32	2-0
Gas Cer-2	ALFRED D-2	Gas,Sum&S0	2	19 - 1	11 - 33	2-1
Gas Cer-3	ALFRED D-3	Gas,Sum&S0	3	19 - 2	11 - 34	2-2
Gas Cer-4	ALFRED D-4	Gas,Sum&S0	4	19 - 3	11 - 35	2-3
Gas Cer-5	ALFRED D-5	Gas,Sum&S0	5	19 - 4	11 - 36	2-4
Gas Cer-6	ALFRED D-6	Gas,Sum&S0	6	19 - 5	11 - 37	2-5
Gas Cer-7	ALFRED D-7	Gas,Sum&S0	7	19 - 6	11 - 38	2-6
Gas Cer-8	ALFRED D-8	Gas,Sum&S0	8	19 - 7	11 - 39	2-7
Gas Cer-9	ALFRED D-9	Gas,Sum&S0	9	19 - 8	11 - 40	2-8
Gas Cer-10	ALFRED D-10	Gas,Sum&S0	10	19 - 9	11 - 41	2-9
Gas Cer-Sum	ALFRED D-11	Gas,Sum&S0	11	19 - 10	11 - 42	

S0A-Top	ALFRED C-6	Gas,Sum&S0	12	19 - 11	11 - 43	13-9
S0B-Bottom	ALFRED C-7	Gas,Sum&S0	13	19 - 12	11 - 44	13-8

***LHRS VDC and Straws (HV)***

Detector position	Patch panel Name&posit.	Flat Cable name	Flat cable Wire No	ADC FB BOT Slot-ch.	TDC Fast bus Slot -ch.	HV Slot-ch
VDC Top						7-0
VDC Bottom						7-3
Straw UM1234						8-0
Straw UM5678						8-2
Straw UM91011						8-4
Straw VM123						8-6
Straw VM4567						8-8
StrawVM891011						8-10



Flat coaxial cable: One end 17 BNC connectors other end 34 pin connector.

PS: Line number 17-in not used

*Albert Shahinyan  
Sep 30, 2013*

*Latest modification by Florian Hauenstein  
January 15, 2018*

