***Hall A R HRS cabling map***

***R HRS Total Absorber (Shower)***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 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 |
| TA-1 | CHARLIE D-1 | TA(1-16) | 1 | 17 - 32 |  | 3-0 |
| TA-2 | CHARLIE D-2 | TA(1-16) | 2 | 17 - 33 |  | 3-1 |
| TA-2 | CHARLIE D-3 | TA(1-16) | 3 | 17 - 34 |  | 3-2 |
| TA-4 | CHARLIE D-4 | TA(1-16) | 4 | 17 - 35 |  | 3-3 |
| TA-5 | CHARLIE D-5 | TA(1-16) | 5 | 17 - 36 |  | 3-4 |
| TA-6 | CHARLIE D-6 | TA(1-16) | 6 | 17 - 37 |  | 3-5 |
| TA-7 | CHARLIE D-7 | TA(1-16) | 7 | 17 - 38 |  | 3-6 |
| TA-8 | CHARLIE D-8 | TA(1-16) | 8 | 17 - 39 |  | 3-7 |
| TA-8 | CHARLIE D-9 | TA(1-16) | 9 | 17 - 40 |  | 3-8 |
| TA-10 | CHARLIE D-10 | TA(1-16) | 10 | 17 - 41 |  | 3-9 |
| TA-11 | CHARLIE D-11 | TA(1-16) | 11 | 17 - 42 |  | 3-10 |
| TA-12 | CHARLIE D-12 | TA(1-16) | 12 | 17 - 43 |  | 3-11 |
| TA-13 | CHARLIE D-13 | TA(1-16) | 13 | 17 - 44 |  | 4-0 |
| TA-14 | CHARLIE D-14 | TA(1-16) | 14 | 17 - 45 |  | 4-1 |
| TA-15 | CHARLIE D-15 | TA(1-16) | 15 | 17 - 46 |  | 4-2 |
| ***empty*** | CHARLIE D-16 | TA(1-16) | 16 | 17 - 47 |  |  |
| TA-17 | DEX A-1 | TA(17-32) | 1 | 18 - 0 |  | 4-3 |
| TA-18 | DEX A-2 | TA(17-32) | 2 | 18 - 1 |  | 4-4 |
| TA-19 | DEX A-3 | TA(17-32) | 3 | 18 - 2 |  | 4-5 |
| TA-20 | DEX A-4 | TA(17-32) | 4 | 18 - 3 |  | 4-6 |
| TA-21 | DEX A-5 | TA(17-32) | 5 | 18 - 4 |  | 4-7 |
| TA-22 | DEX A-6 | TA(17-32) | 6 | 18 - 5 |  | 4-8 |
| TA-23 | DEX A-7 | TA(17-32) | 7 | 18 - 6 |  | 4-9 |
| TA-24 | DEX A-8 | TA(17-32) | 8 | 18 - 7 |  | 4-10 |
| TA-25 | DEX A-9 | TA(17-32) | 9 | 18 - 8 |  | 4-11 |
| TA-26 | DEX A-10 | TA(17-32) | 10 | 18 - 9 |  | 5-0 |
| TA-27 | DEX A-11 | TA(17-32) | 11 | 18 - 10 |  | 5-1 |
| TA-28 | DEX A-12 | TA(17-32) | 12 | 18 - 11 |  | 5-2 |
| TA-29 | DEX A-13 | TA(17-32) | 13 | 18 - 12 |  | 5-3 |
| TA-30 | DEX A-14 | TA(17-32) | 14 | 18 - 13 |  | 5-4 |
| TA-31 | DEX A-15 | TA(17-32) | 15 | 18 - 14 |  | 5-5 |
| ***empty*** | DEX A-16 | TA(17-32) | 16 | 18 - 15 |  |  |
| TA-33 | DEX B-1 | TA(33-48) | 1 | 19 - 0 |  | 5-6 |
| TA-34 | DEX B-2 | TA(33-48) | 2 | 19 - 1 |  | 5-7 |
| TA-35 | DEX B-3 | TA(33-48) | 3 | 19 - 2 |  | 5-8 |
| TA-36 | DEX B-4 | TA(33-48) | 4 | 19 - 3 |  | 5-9 |
| TA-37 | DEX B-5 | TA(33-48) | 5 | 19 - 4 |  | 5-10 |
| TA-38 | DEX B-5 | TA(33-48) | 6 | 19 - 5 |  | 5-11 |
| TA-39 | DEX B-7 | TA(33-48) | 7 | 19 - 6 |  | 6-0 |
| TA-40 | DEX B-8 | TA(33-48) | 8 | 19 - 7 |  | 6-1 |
| TA-41 | DEX B-9 | TA(33-48) | 9 | 19 - 8 |  | 6-2 |
| TA-42 | DEX B-10 | TA(33-48) | 10 | 19 - 9 |  | 6-3 |
| TA-43 | DEX B-11 | TA(33-48) | 11 | 19 - 10 |  | 6-4 |
| TA-44 | DEX B-12 | TA(33-48) | 12 | 19 - 11 |  | 6-5 |
| TA-45 | DEX B-13 | TA(33-48) | 13 | 19 - 12 |  | 6-6 |
| TA-46 | DEX B-14 | TA(33-48) | 14 | 19 - 13 |  | 6-7 |
| TA-47 | DEX B-15 | TA(33-48) | 15 | 19 - 14 |  | 6-8 |
| ***empty*** | DEX B-16 | TA(33-48) | 16 | 19 - 15 |  |  |
| TA-49 | EUNICE A-1 | TA(49-64) | 1 | 16 - 0 |  | 6-9 |
| TA-50 | EUNICE A-2 | TA(49-64) | 2 | 16 - 1 |  | 6-10 |
| TA-51 | EUNICE A-3 | TA(49-64) | 3 | 16 - 2 |  | 6-11 |
| TA-52 | EUNICE A-4 | TA(49-64) | 4 | 16 - 3 |  | 7-0 |
| TA-53 | EUNICE A-5 | TA(49-64) | 5 | 16 - 4 |  | 7-1 |
| TA-54 | EUNICE A-6 | TA(49-64) | 6 | 16 - 5 |  | 7-2 |
| TA-55 | EUNICE A-7 | TA(49-64) | 7 | 16 - 6 |  | 7-3 |
| TA-56 | EUNICE A-8 | TA(49-64) | 8 | 16 - 7 |  | 7-4 |
| TA-57 | EUNICE A-9 | TA(49-64) | 9 | 16 - 8 |  | 7-5 |
| TA-58 | EUNICE A-10 | TA(49-64) | 10 | 16 - 9 |  | 7-6 |
| TA-59 | EUNICE A-11 | TA(49-64) | 11 | 16 - 10 |  | 7-7 |
| TA-60 | EUNICE A-12 | TA(49-64) | 12 | 16 - 11 |  | 7-8 |
| TA-61 | EUNICE A-13 | TA(49-64) | 13 | 16 - 12 |  | 7-9 |
| TA-62 | EUNICE A-14 | TA(49-64) | 14 | 16 - 13 |  | 7-10 |
| TA-63 | EUNICE A-15 | TA(49-64) | 15 | 16 - 14 |  | 7-11 |
| ***empty*** | EUNICE A-16 | TA(49-64) | 16 | 16 - 15 |  |  |
| TA-65 | EUNICE B-1 | TA(65-80) | 1 | 17 - 16 |  | 8-0 |
| TA-66 | EUNICE B-2 | TA(65-80) | 2 | 17 - 17 |  | 8-1 |
| TA-67 | EUNICE B-3 | TA(65-80) | 3 | 17 - 18 |  | 8-2 |
| TA-68 | EUNICE B-4 | TA(65-80) | 4 | 17 - 19 |  | 8-3 |
| TA-69 | EUNICE B-5 | TA(65-80) | 5 | 17 - 20 |  | 8-4 |
| TA-70 | EUNICE B-6 | TA(65-80) | 6 | 17 - 21 |  | 8-5 |
| TA-71 | EUNICE B-7 | TA(65-80) | 7 | 17 - 22 |  | 8-6 |
| TA-72 | EUNICE B-8 | TA(65-80) | 8 | 17 - 23 |  | 8-7 |
| TA-73 | EUNICE B-9 | TA(65-80) | 9 | 17 - 24 |  | 8-8 |
| TA-74 | EUNICE B-10 | TA(65-80) | 10 | 17 - 25 |  | 8-9 |
| TA-75 | EUNICE B-11 | TA(65-80) | 11 | 17 - 26 |  | 8-10 |
| TA-76 | EUNICE B-12 | TA(65-80) | 12 | 17 - 27 |  | 8-11 |
| TA-77 | EUNICE B-13 | TA(65-80) | 13 | 17 - 28 |  | 9-0 |
| TA-78 | EUNICE B-14 | TA(65-80) | 14 | 17 - 29 |  | 9-1 |
| TA-79 | EUNICE B-15 | TA(65-80) | 15 | 17 - 30 |  | 9-2 |
| ***empty*** | EUNICE B-16 | TA(65-80) | 16 | 17 - 31 |  |  |

***R HRS EPS (Preshower)***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 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 |
| EPS-1R | CHARLIE A-1 | EPS(1R-16R) | 1 | 20 - 0 |  | 10-0 |
| EPS-2R | CHARLIE A-2 | EPS(1R-16R) | 2 | 20 - 1 |  | 10-1 |
| EPS-3R | CHARLIE A-3 | EPS(1R-16R) | 3 | 20 - 2 |  | 10-2 |
| EPS-4R | CHARLIE A-4 | EPS(1R-16R) | 4 | 20 - 3 |  | 10-3 |
| EPS-5R | CHARLIE A-5 | EPS(1R-16R) | 5 | 20 - 4 |  | 10-4 |
| EPS-6R | CHARLIE A-6 | EPS(1R-16R) | 6 | 20 - 5 |  | 10-5 |
| EPS-7R | CHARLIE A-7 | EPS(1R-16R) | 7 | 20 - 6 |  | 10-6 |
| EPS-8R | CHARLIE A-8 | EPS(1R-16R) | 8 | 20 - 7 |  | 10-7 |
| EPS-9R | CHARLIE A-9 | EPS(1R-16R) | 9 | 20 - 8 |  | 10-8 |
| EPS-10R | CHARLIE A-10 | EPS(1R-16R) | 10 | 20 - 9 |  | 10-9 |
| EPS-11R | CHARLIE A-11 | EPS(1R-16R) | 11 | 20 - 10 |  | 10-10 |
| EPS-12R | CHARLIE A-12 | EPS(1R-16R) | 12 | 20 - 11 |  | 10-11 |
| EPS-13R | CHARLIE A-13 | EPS(1R-16R) | 13 | 20 - 12 |  | 11-0 |
| EPS-14R | CHARLIE A-14 | EPS(1R-16R) | 14 | 20 - 13 |  | 11-1 |
| EPS-15R | CHARLIE A-15 | EPS(1R-16R) | 15 | 20 - 14 |  | 11-2 |
| EPS-16R | CHARLIE A-16 | EPS(1R-16R) | 16 | 20 - 15 |  | 11-3 |
| EPS-17R | CHARLIE B-1 | EPS(17R-24R) | 1 | 21 - 0 |  | 11- 4 |
| EPS-18R | CHARLIE B-2 | EPS(1L-8L) | 2 | 21 - 1 |  | 11-5 |
| EPS-19R | CHARLIE B-3 | EPS(1L-8L) | 3 | 21 - 2 |  | 11-6 |
| EPS-20R | CHARLIE B-4 |  | 4 | 21 - 3 |  | 11-7 |
| EPS-21R | CHARLIE B-5 |  | 5 | 21 - 4 |  | 11-8 |
| EPS-22R | CHARLIE B-6 |  | 6 | 21 - 5 |  | 11-9 |
| EPS-23R | CHARLIE B-7 |  | 7 | 21 - 6 |  | 11-10 |
| EPS-24R | CHARLIE B-8 |  | 8 | 21 - 7 |  | 11-11 |
| EPS-1L | CHARLIE B-9 |  | 9 | 21 - 8 |  | 12-0 |
| EPS-2L | CHARLIE B-10 |  | 10 | 21 - 9 |  | 12-1 |
| EPS-3L | CHARLIE B-11 |  | 11 | 21 - 10 |  | 12-2 |
| EPS-4L | CHARLIE B-12 |  | 12 | 21 - 11 |  | 12-3 |
| EPS-5L | CHARLIE B-13 |  | 13 | 21 - 12 |  | 12-4 |
| EPS-6L | CHARLIE B-14 |  | 14 | 21 - 13 |  | 12-5 |
| EPS-7L | CHARLIE B-15 |  | 15 | 21 - 14 |  | 12-6 |
| EPS-8L | CHARLIE B-16 |  | 16 | 21 - 15 |  | 12-7 |
| EPS-9L | CHARLIE C-1 | EPS(9L-24L) | 1 | 16 - 32 |  | 12-8 |
| EPS-10L | CHARLIE C-2 | EPS(9L-24L) | 2 | 16 - 33 |  | 12-9 |
| EPS-11L | CHARLIE C-3 | EPS(9L-24L) | 3 | 16 - 34 |  | 12-10 |
| EPS-12L | CHARLIE C-4 | EPS(9L-24L) | 4 | 16 - 35 |  | 12-11 |
| EPS-13L | CHARLIE C-5 | EPS(9L-24L) | 5 | 16 - 36 |  | 13-0 |
| EPS-14L | CHARLIE C-6 | EPS(9L-24L) | 6 | 16 - 37 |  | 13-1 |
| EPS-15L | CHARLIE C-7 | EPS(9L-24L) | 7 | 16 - 38 |  | 13-2 |
| EPS-16L | CHARLIE C-8 | EPS(9L-24L) | 8 | 16 - 39 |  | 13-3 |
| EPS-17L | CHARLIE C-9 | EPS(9L-24L) | 9 | 16 - 40 |  | 13-4 |
| EPS-18L | CHARLIE C-10 | EPS(9L-24L) | 10 | 16 - 41 |  | 13-5 |
| EPS-19L | CHARLIE C-11 | EPS(9L-24L) | 11 | 16 - 42 |  | 13-6 |
| EPS-20L | CHARLIE C-12 | EPS(9L-24L) | 12 | 16 - 43 |  | 13-7 |
| EPS-21L | CHARLIE C-13 | EPS(9L-24L) | 13 | 16 - 44 |  | 13-8 |
| EPS-22L | CHARLIE C-14 | EPS(9L-24L) | 14 | 16 - 45 |  | 13-9 |
| EPS-23L | CHARLIE C-15 | EPS(9L-24L) | 15 | 16 - 46 |  | 13-10 |
| EPS-24L | CHARLIE C-16 | EPS(9L-24L) | 16 | 16 - 47 |  | 13-11 |

***R HRS S2m and S1***

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

***R HRS Gas Cerenkov***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 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 C-1 | Gas,Sum&S0 | 1 | 20 - 32 | 11-32 | 14-0 |
| Gas Cer-2 | ALFRED C-2 | Gas,Sum&S0 | 2 | 20 - 33 | 11-33 | 14-1 |
| Gas Cer-3 | ALFRED C-3 | Gas,Sum&S0 | 3 | 20 - 34 | 11-34 | 14-2 |
| Gas Cer-4 | ALFRED C-4 | Gas,Sum&S0 | 4 | 20 - 35 | 11-35 | 14-3 |
| Gas Cer-5 | ALFRED C-5 | Gas,Sum&S0 | 5 | 20 - 36 | 11-36 | 14-4 |
| Gas Cer-6 | ALFRED C-6 | Gas,Sum&S0 | 6 | 20 - 37 | 11-37 | 14-5 |
| Gas Cer-7 | ALFRED C-7 | Gas,Sum&S0 | 7 | 20 - 38 | 11-38 | 14-6 |
| Gas Cer-8 | ALFRED C-8 | Gas,Sum&S0 | 8 | 20 - 39 | 11-39 | 14-7 |
| Gas Cer-9 | ALFRED C-9 | Gas,Sum&S0 | 9 | 20 - 40 | 11-40 | 14-8 |
| Gas Cer-10 | ALFRED C-10 | Gas,Sum&S0 | 10 | 20 - 41 | 11-41 | 14-9 |
| Gas Cer-Sum | ALFRED C-11 | Gas,Sum&S0 | 11 | 20 - 42 | 11-42 |  |
| S0A-Bot | ALFRED C-12 | Gas,Sum&S0 | 12 | 20 - 43 | 11-43 | 2-8 |
| S0B-Top | ALFRED C-13 | Gas,Sum&S0 | 13 | 20 - 44 | 11-44 | 2-9 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

***Other***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Detector  position | Patch panel  Name&posit. | Flat  Cable name | ADC  FB BOT  Slot-ch. | TDC  Fast bus  Slot –ch. |
| Triggers |  | TRIGGERS |  | 11 - (42-63) |
| SPARE 1 |  | SPARE 1 |  | 16 - (0-15) MID |
| SPARE 2 |  | SPARE 2 |  | 16 - (16-31) MID |



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

PS: Line number 17-in not used

***Albert Shahinyan***

***Sep 26, 2013***

***Update: Tyler Hague***

***July 10, 2017***