CRDC 1 Anode
CRDC 2 Anode
Amplifier (Tennelec TC241)
Fast Out
Quad Fast Amplifier (NSCL)
S1 CRDC 1 Anode
S2 CRDC 2 Anode
Variable Amplifier (LeCroy 612AL)
Splitter AVL (NSCL)
to FERA
Fan-In / Out (ESN LF 4000)
to stop TAC CRDC1
to ALM CRDC1
to Scaler and MTDC
to stop TAC CRDC2
to ALM CRDC2
to Scaler and MTDC
CRDC1
CRDC2
Gate & Delay Generator (LeCroy 4564)
MCFD-16 (Mesytec)
ECL-NIM-ECL (NSCL)
Hodoscope 0-15
to Scaler and MTDC
1: E1 up
2: E1 down
3: ΔE (S2)
4: OR S2
5: SF
6: CRDC 1 sn
7: CRDC 2 sn
8: Hodos
9: S800 trigg
E1 up
E1 down
ΔE (S2)
Hodoscope 0-15
S800 Trigger E1 up
Gretina gam OR (Fast P.2)
RF
60 Hz OR / S2 del. (data OR)
RF_SC-del
Fan-In / Out (ESN LF 4000)
to ALM Del. (Phillips TDC)
E1/S1 to S800 PPD Rate Meter
to ALM (A)
to ALM (A)
to ALM (A)
to ALM Del. (Phillips TDC)
to ALM (A)
Pulser
Gretina gamma OR (Fast Patch 2)
EXT 1
EXT 2
Gate Generator (NSCL)
to OR with CH 1
CC-USB 02
Random Pulse Gen. (NSCL)
Scale Down (NSCL)
E1 up
E1 down
ΔE (S2)
Hodoscope 0-15
Hodoscope 17-32
to Scaler and MTDC
to S1 TAC
ONLY LOGGED
to XFST patch: target area
to target area
E1 up
E1 down
A1900
OBJ/SC
Fan-In / Out (ESN LF 4000)
to XLM Del. (Phillips TDC)
to Scaler and MTDC
to S2 TAC
CC-USB 01
CC-USB 02
S800 Trigger
69/39 Cyclotron RF
MCFD-16 (Mesytec)
70/40 XF 1000
XF SC1
Fan-In / Out (NSCL)
Trig TAC
S1 TAC (ORTEC)
Start TAC (E1/GAMMA)
to Scaler and MTDC
to Start TAC Hodos.
to Antisymc. Hodos.
to target area
B2 Live Trigger
B3 ADC Gate
B4 QDC Gate
B5 TDC Start
B6 Trigger Register Gate
B8 Live Trigger
B9 Trigger
B10 Inspt 3
B11 Inspt 4
B12 Fast Clear
B13 Fast Clear
B16 Time stamp clock
D1: S800 source
D2: Secondary source
D4: Coinc. Trigger
D5: Ext. Inspt. 3
D6: Ext. Inspt. 4
D7: Second Inspt.
D8: Ext. Inspt. 7
D9: Ext. Inspt. 8
D10: Raw Inspt.
D11: Raw Inspt.
D12: Time pulser
D13: Time pulser
D14: Fast Clear
D15: 10 Hz
D16: 1 Hz
CC USB (Wiener)
to ALM IC1
to ALM IC2
B2 Live Trigger
B3 ADC gate
MTDC-32 (Mesytec)
S1: E1 up
S2: E1 down
2: A1900
3: OBJ/SC
4: SF
6: CRDC 1 anode
7: CRDC 2 anode
11: Hodos
12: S800 trigg
13: Pulser
Net Controller (CAEN V288)
Serial line to CAEN vhapters
hodoscope + ion chamber
A1900
B2 Live Trigger
B3 ADC Gate
B4 QDC Gate
B5 TDC Start
B6 Trigger Register Gate
B8 Live Trigger
B9 Trigger
B10 Inspt 3
B11 Inspt 4
B12 Fast Clear
B13 Fast Clear
B16 Time stamp clock
D1: S800 source
D2: Secondary source
D4: Coinc. Trigger
D5: Ext. Inspt. 3
D6: Ext. Inspt. 4
D7: Second Inspt.
D8: Ext. Inspt. 7
D9: Ext. Inspt. 8
D10: Raw Inspt.
D11: Raw Inspt.
D12: Time pulser
D13: Time pulser
D14: Fast Clear
D15: 10 Hz
D16: 1 Hz
A1: S800 trigger source-E1 up
A2: Secondary trigger source
A3: External source (Trig Inpt 4)
A4: Gretina gam OR (Fast P.2)
A6: Gretina clock (Fast Patch 1)
C1: VM-USB 01 (Busy 1)
C2: CC-USB 01.02 (Busy 2)
C6: CC-USB 01.02 (Time stamp latch)
C9: Time stamp clock
C14: Time stamp latch
LUMI
LeCroy 23671
I/O A
I/O B
I/O C
B1: TDC Start
to ch CFD
LeCroy 4413)
B13 Fast Clear
B4: QDC gate
to Phillips TDC
Clear and Gate to FERA
Hodoscope sectors 16-23
Hodoscope sectors 24-31
CFD (CAEN C671)
Hodoscope sectors 0-7
Hodoscope sectors 8-15
Conc. Register (LeCroy 4448)
B6 Live Trigger
Gate
VM USB (Wiener)
to ALM IC1
B2 Live Trigger
TAC (ORTEC 566)
S800 Trigger
A1900
S800 Trigger 200 ns
62: From OBJ SCI CFD dCAN
S800 Trigger
60: From Galotte CFD dLAN
B5: TDC Start
CRDC 1 Anode
B5: TDC Start
CRDC 2 Anode
S800 Trigger
B5: TDC Start
D1: S800 source
D2: Secondary source
D5: S800 trigger
D6: Ext. Inspt. 3
D7: Ext. Inspt. 4
D8: Ext. Inspt. 7
D9: Ext. Inspt. 8
D10: Raw Inspt.
D11: Raw Inspt.
D12: Time pulser
D13: Time pulser
D14: Fast Clear
D15: 10 Hz
D16: 1 Hz
17: E1 up
18: E1 down
19: A1900
20: OBJ SI
21: SF
22: RF
23: CRDC 1 anode
24: CRDC 2 anode
29: Hodos
32: S800 trigg
Scaler (LeCroy 4434)
ADC (Phillips 7164)
B3: ADC gate
94-04 Target
1: CRDC1 anode
2: CRDC2 anode
3: TAC E1 (CRDC1)
4: TAC E1 (CRDC2)
5: TAC OR' (CLC1)
6: TAC (CRDC1/CLC1)
7: TAC (CRDC2/CLC1)
8: TAC E1 (Gallotte E1)
TAC(E1,Hodoscope)
FERA (LeCroy 4300B)
B13 Fast Clear
B4: QDC gate
1: E1 up
2: E1 down
3: ΔE (S2)
4: OR S2
5: SF
6: CRDC 1 sn
7: CRDC 2 sn
8: Hodos
9: S800 trigg
10: Cyclotron RF
11: Gretina gamma OR (Fast P.2)
12: Gretina RF
13: Pulser
14: OBJ SCI
15: RF SCI del.
16: OBJ SC del.
17: RF SC del.
TDC (Phillips 7186H)
Common
0: E1 up del.
1: E1 down del.
2: ΔE (S2) del.
3: E1 up del.
10: EXT 1
11: Gretina gamma OR (Fast P.2)
12: Cyclotron RF
14: OBJ SCI del.
15: RF SCI del.
ALM (TTG)
ALM1 (TTG)
ALM1 V
PPACs
ALM12 V
ALM12V
Net Controller (CAEN V288)
RJC1521
RJC1504
RJC1516
RJC1518
RJC1523
RJC1520
RJC1517
RJC1524
RJC1525
RJC1526
RJC1527
RJC1528
RJC1529
RJC1530
RJC1531
RJC1532
RJC1533
RJC1534
RJC1535
RJC1536
RJC1537
RJC1538
RJC1539
RJC1540
RJC1541
RJC1542
RJC1543
RJC1544
RJC1545
RJC1546
RJC1547
RJC1548
RJC1549
RJC1550
RJC1551
RJC1552
RJC1553
RJC1554
RJC1555
RJC1556
RJC1557
RJC1558
RJC1559
RJC1560
RJC1561
RJC1562
RJC1563