

Number of Trigger Crates:

Sub-Detector	Number of Trigger Crates	SSP Slot	
BCAL	8	1	3
FCAL	12	2,3	4,5
TAGM	1	4	6
TAGH	1	5	7
PS	1	6	8
ST	1	7	9
TOF	1	8	10

Trigger time defined by: TAGM, TAGH, ST, FCAL, TOF, BCAL
 (sorted by smallest uncertainties)

TAGH trigger:

- 131 counters below the microscope will always be used in the trigger
- $81 + 5 = 86$ counters above the microscope (optional)

TS triggers:

Trigger	Trigger Bit
FCAL LED (external to TS)	29
BCAL LED (external to TS)	30
Random	31

Trigger Type	Trigger Bit
$E_{\text{FCAL}} > E_{\text{THR}}$ (two thresholds)	0,1
$E_{\text{BCAL}} > E_{\text{THR}}$ (two thresholds)	2,3
$A \cdot E_{\text{BCAL}} + B \cdot E_{\text{FCAL}} > E_{\text{THR}}$ ($E_{\text{FCAL}}, E_{\text{BCAL}}$)	4
BCAL cosmics	5
TAGM	6
TAGH	7
PSC (coincidence)	8
ST	9
TOF (cluster finding)	10
Coincidences	
TAGM + PS	11
TAGM + N_{ST} ($N_{\text{ST}} > 0$)	12
TAGM + BCAL ($E > E_{\text{THR}}$)	13
TAGM + FCAL ($E > E_{\text{THR}}$)	14
TAGM + ($E_{\text{FCAL}}, E_{\text{BCAL}}$)	15
TAGM + ($E_{\text{FCAL}}, E_{\text{BCAL}}$) + N_{ST}	16
TAGM + ($E_{\text{FCAL}}, E_{\text{BCAL}}$) + $N_{\text{ST}} + N_{\text{TOF}}$	17
TAGH + PS	18
TAGH + N_{ST} ($N_{\text{ST}} > 0$)	19
TAGH + BCAL ($E > E_{\text{THR}}$)	20
TAGH + FCAL ($E > E_{\text{THR}}$)	21
TAGH + ($E_{\text{FCAL}}, E_{\text{BCAL}}$)	22
TAGH + ($E_{\text{FCAL}}, E_{\text{BCAL}}$) + N_{ST}	23
TAGH + ($E_{\text{FCAL}}, E_{\text{BCAL}}$) + $N_{\text{ST}} + N_{\text{TOF}}$	24
$N_{\text{ST}} + N_{\text{TOF}} + \text{FCAL}$ ($E > E_{\text{THR}}$)	25
$N_{\text{ST}} + N_{\text{TOF}}$	26