IFT status

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IFT overview

Detector side

FEC → Partial OR → Majority

Electronic house

IFS → GLT

Trg word

ck8
IFR trigger layers

Barrel
- Master Or of 96 phi strips per layer
- Layers: 2, 4, 6, 8, 11, 12, 14, 16

Endcap
- Master Or of 64 top + 64 middle + 64 bottom vertical strips per layer
- Layers: 3, 5, 7, 9, 11, 13, 15, 17
Majority Logic

- 10 IFR sectors
- 10 trigger bits to IFS
  (electronic house)

1 trigger bit per IFR sector
Ifr trigger words

Global trigger crate Rack # 24

- Priority encoding
- IFT-GLT sync
- IFR trigger word generation

10 bits

IFS

ck8

3 bits

000  No trigger
001  “2 or more IFT2 lines”
010  1 IFT2 in backward
011  1 IFT2 in forward
100  1 IFT2 in barrel
101  2 back to back IFT2 in barrel + 1 forward
110  1 IFT2 in barrel + 1 in forward
111  2 IFT2 back to back (usual cosmic line)