BadPacket study

Hidemitsu Asano

Procedure

- For each dataset:
  - Find failure rate for each ladder (bias+daqerr)
  - Reject ladders with a high failure rate.
  - Form a detector mask.
  - Loop back over data and see the failure rate for the ensemble.
    - Not necessarily the same as the ladder failure rate.

Run11AuAu200 (334 analyzed runs)

Nruns accepted	Nbad ladders	Bad ladders
285	40	B0-L5-S B0-L6-N B0-L6-S B0-L7-S B0-L8-S B0-L9-N B0-L9-S B1-L0-S B1-L2-N B1-L5-S B1-L7-S B1-L8-N B1-L9-N B1-L9-S B1-L10-N B1-L10-S B1-L11-N B1-L12-N B1-L13-N B1-L14-N B1-L14-S B1-L15-N B1-L16-N B1-L16-S B1-L17-N B1-L17-S B2-L1 B2-L5 B2-L7 B2-L8 B2-L9 B2-L13 B2-L14 B2-L15 B3-L0 B3-L7 B3-L11 B3-L13 B3-L22 B3-L23
243	31	B0-L5-S B0-L6-S B0-L7-S B0-L8-S B0-L9-N B0-L9-S B1-L0-S B1-L5-S B1-L7-S B1-L8-N B1-L9-N B1-L9-S B1-L10-S B1-L11-N B1-L12-N B1-L13-N B1-L14-N B1-L16-N B1-L17-N B1-L17-S B2-L5 B2-L7 B2-L8 B2-L9 B2-L13 B2-L14 B2-L15 B3-L0 B3-L11 B3-L13 B3-L23
114	21	B0-L6-S B0-L8-S B0-L9-N B1-L0-S B1-L7-S B1-L10-S B1-L11-N B1-L12-N B1-L13-N B1-L14-N B1-L16-N B1-L17-S B2-L5 B2-L7 B2-L8 B2-L9 B2-L13 B2-L15 B3-L0 B3-L13 B3-L23

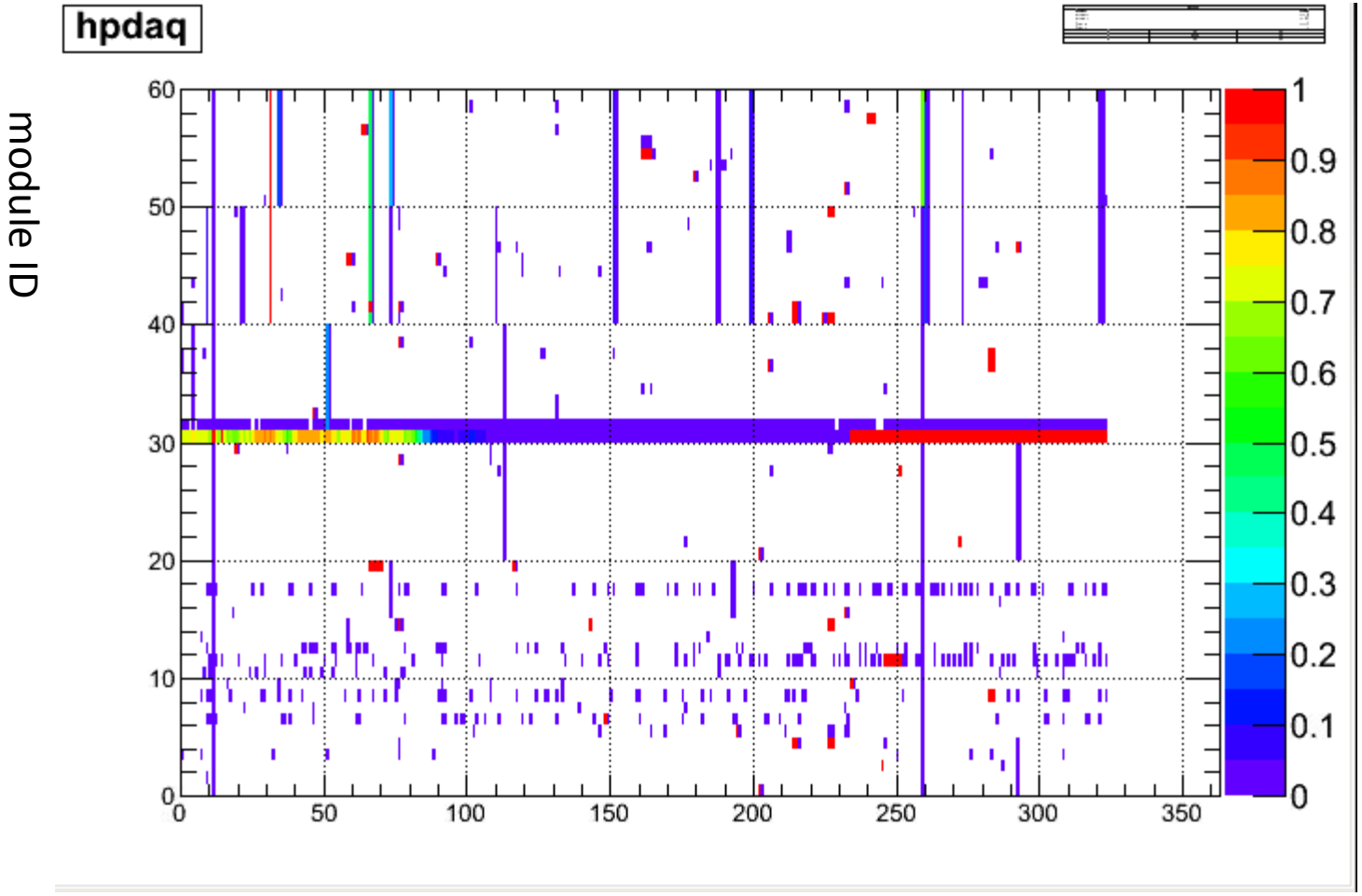
- from John Koster's slide

before QM, 3rd group (tightest one) was used for analysis.

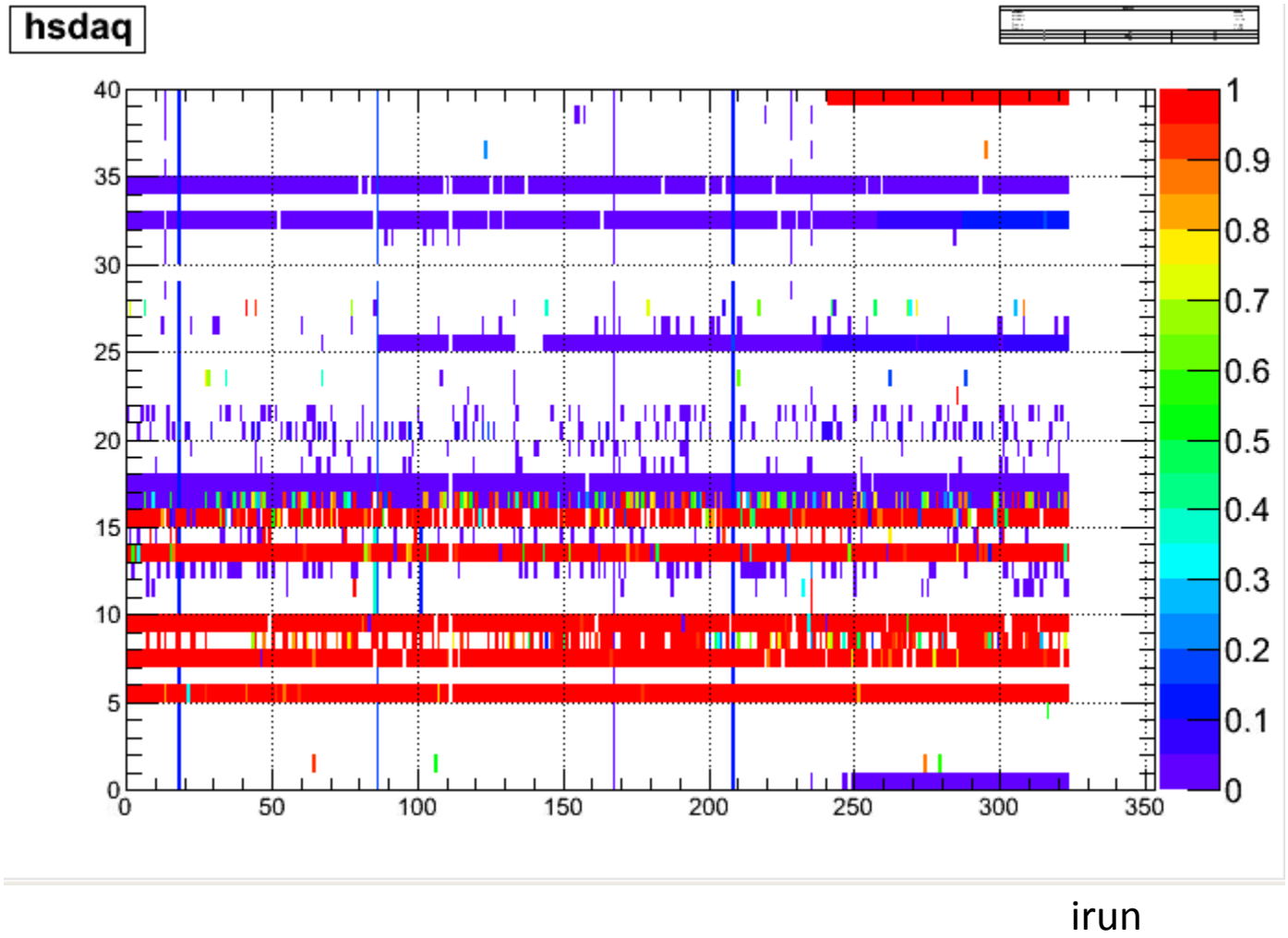
BadPacket events in Run11 AuAu 200GeV

- As Takashi reported last week, we are studying why Event Killer killed ~50% event in QM analysis.
- scanned EventHeader node in compactCNT.

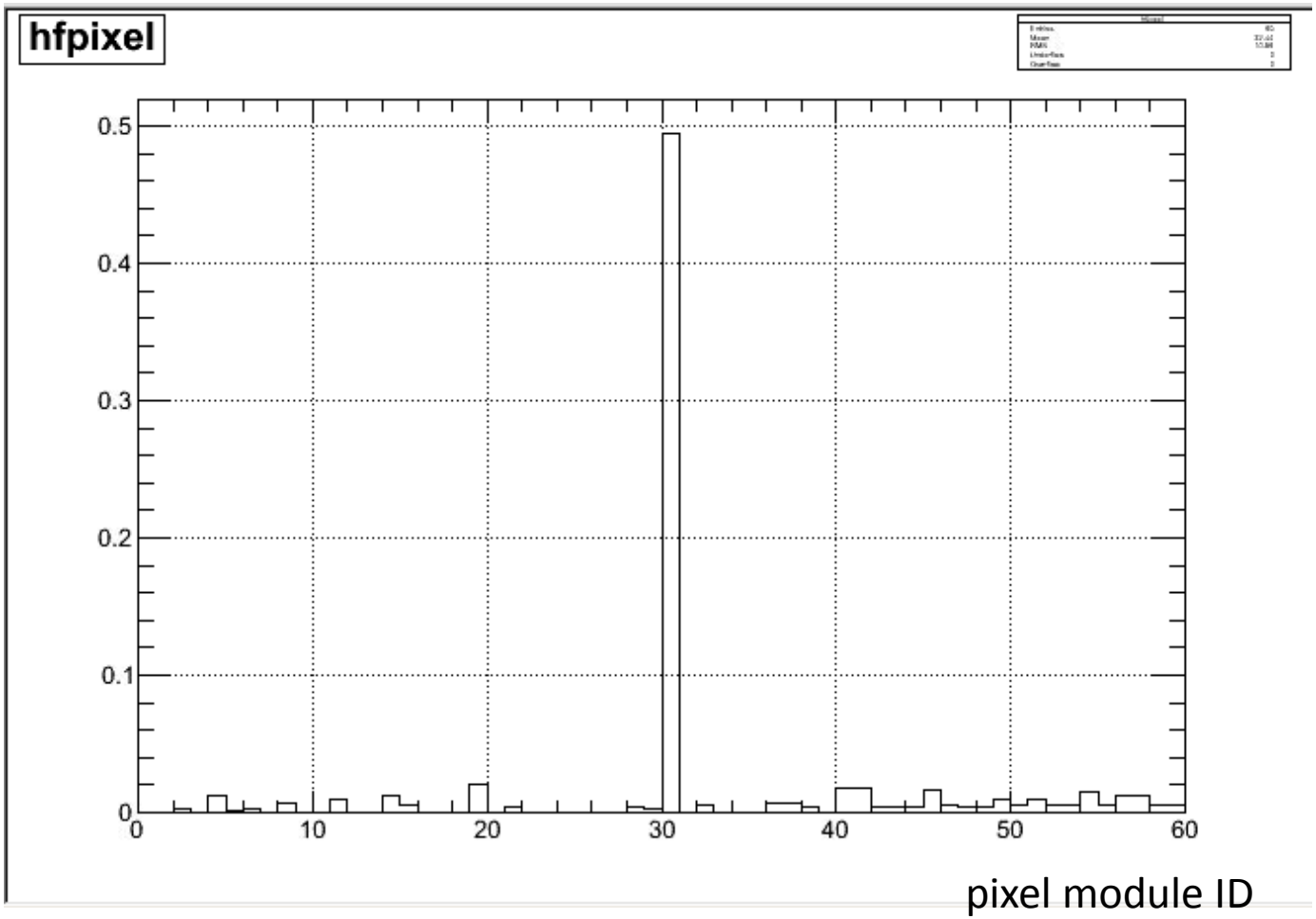
pixel badpacket fraction for each run



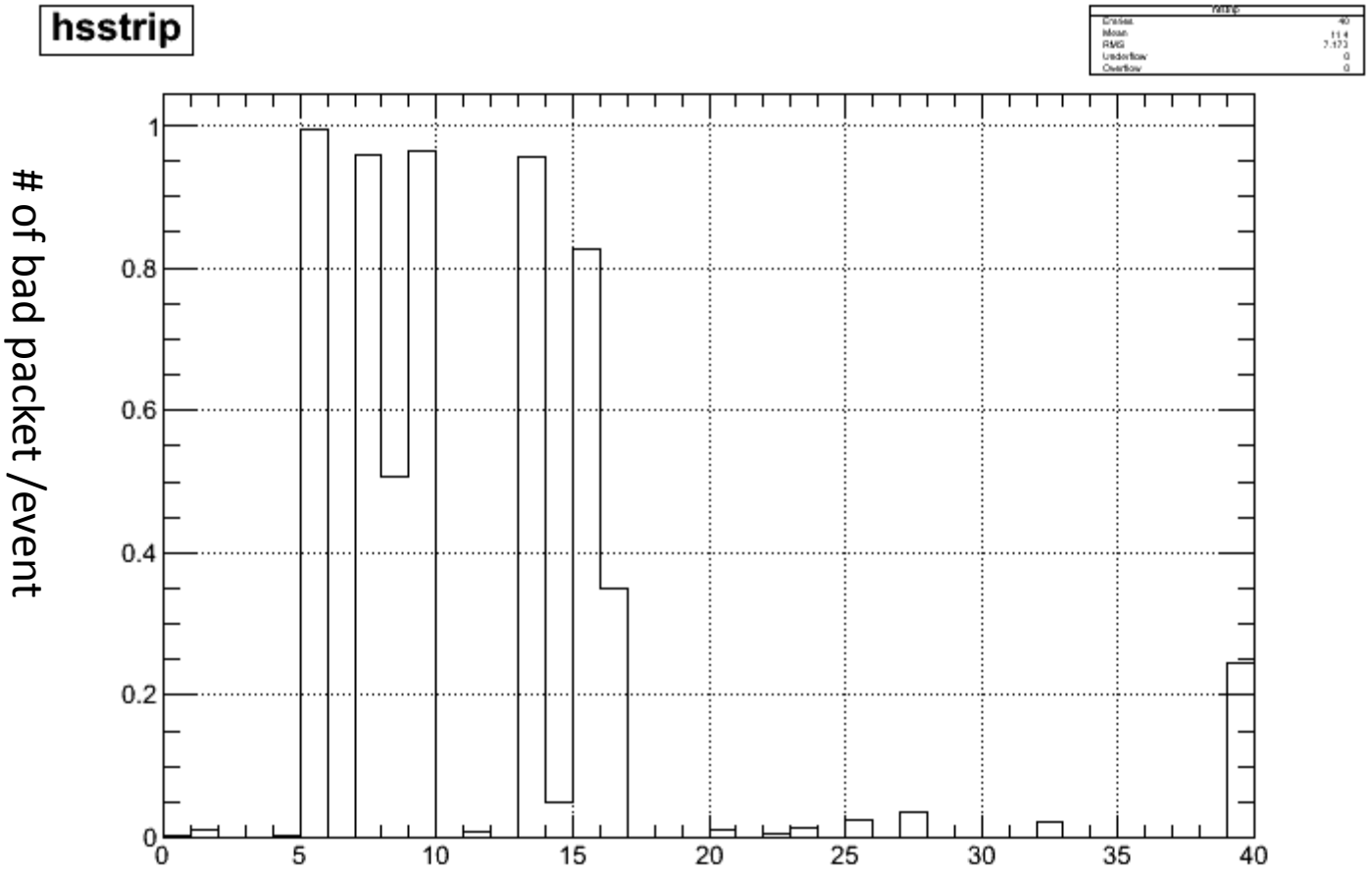
stripixel badpacket fraction for each run



pixel bad packet fraction (after 4th repair)



stripixel bad packet fraction (after 4th repair)



backup