MINOS in a beam—brief highlights

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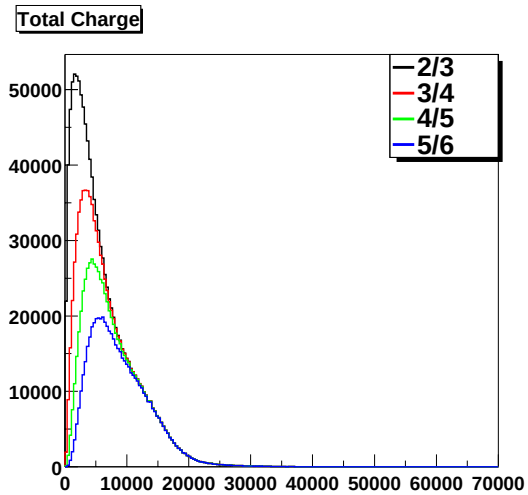
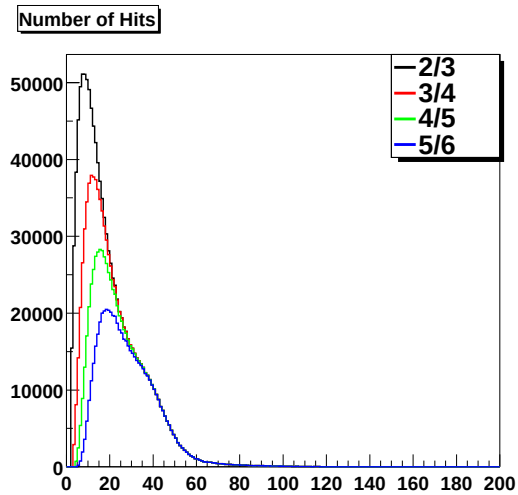
- Low rate Soudan electronics, but evil environment in East Hall.
- Deadtime effects are an issue
- At CalDet, write out data from BRP
  - All data—not triggered, so have full history
- Clean event sample can be identified

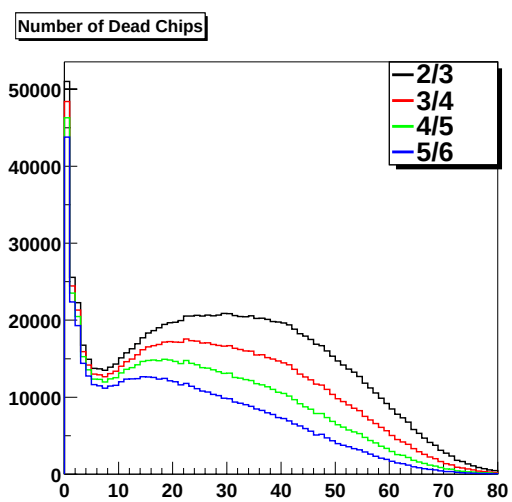
Electron events as function of trigger

- Define electron sample as events with Čerenkov above threshold
- Consider different $M/M+1$ triggers

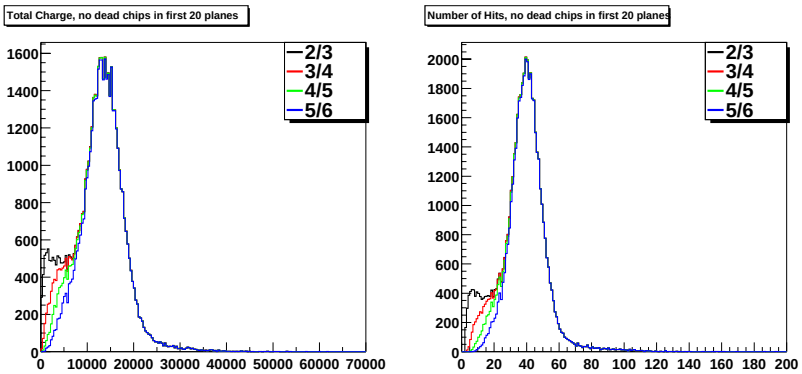




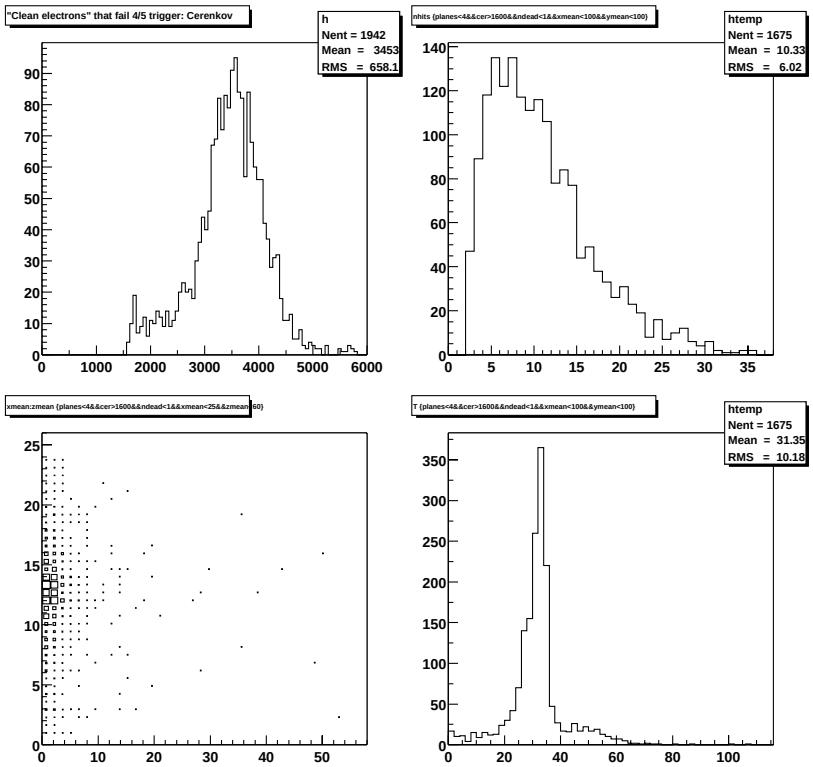
- But these plots dominated by chip deadtime:



Look at events with no dead chips

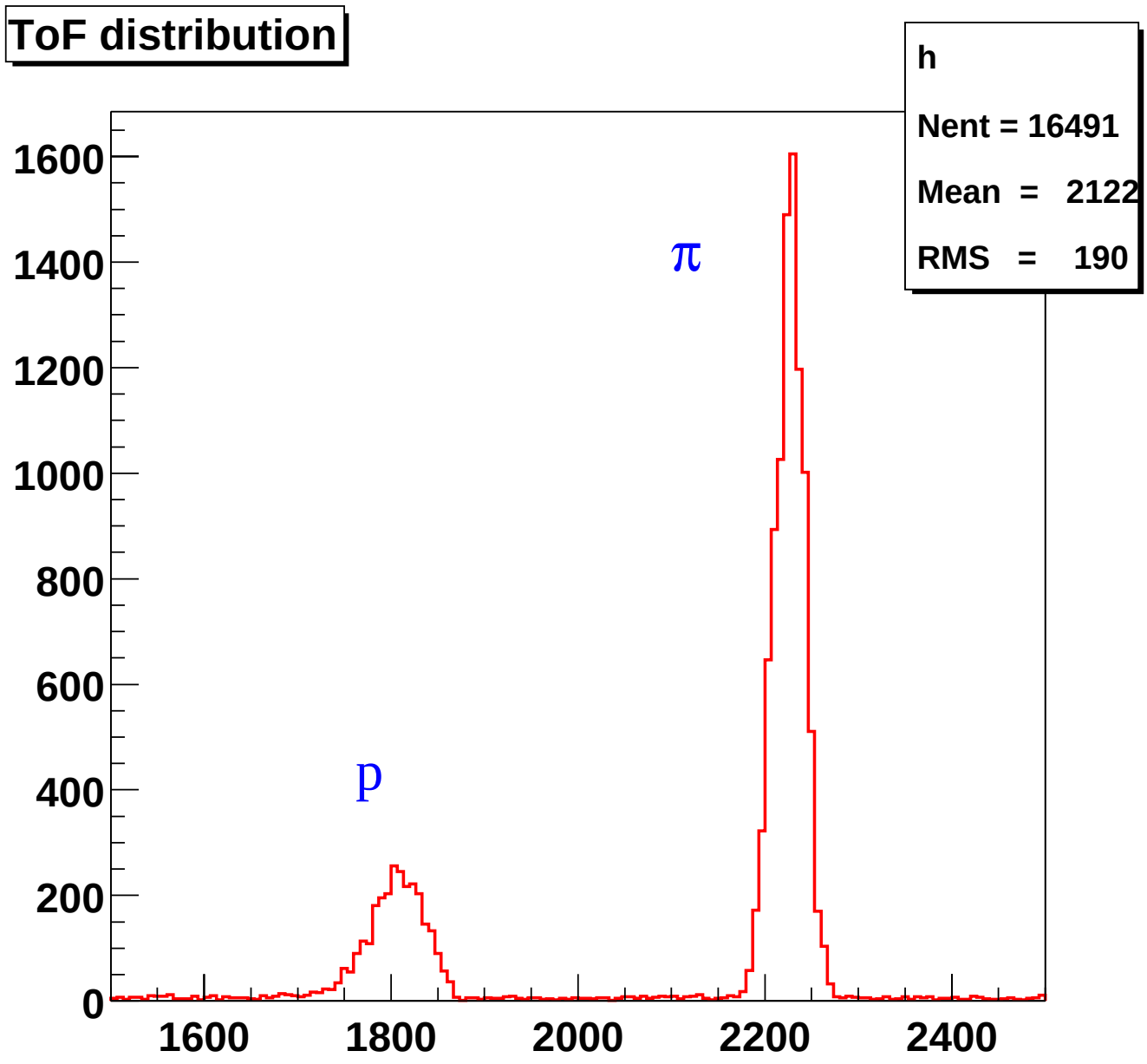


- Now different triggers produce the same results, except for excess at low charge/nhits. What are these?



- These look like electrons with dead chips—they probably are

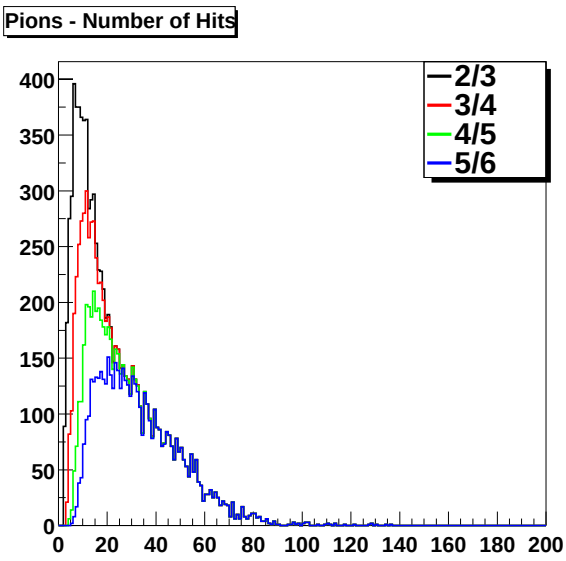
Pions and Protons

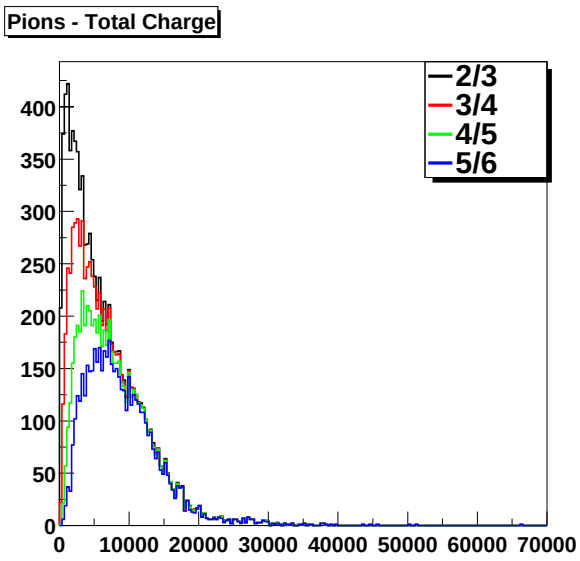


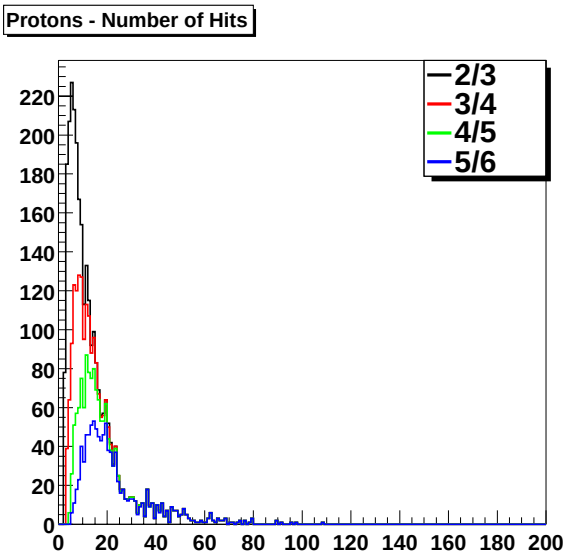
ToF distribution for 1 GeV positives

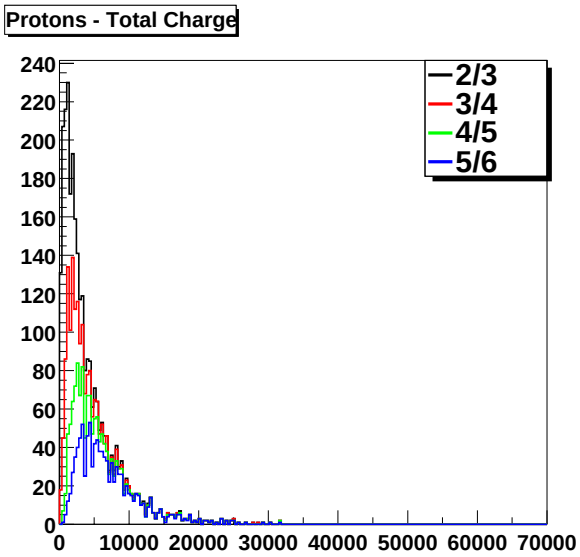
Pions and Protons

- All data (including events with dead chips)



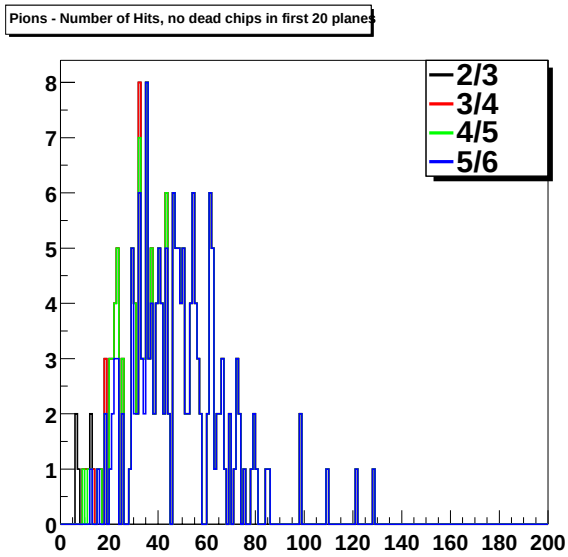


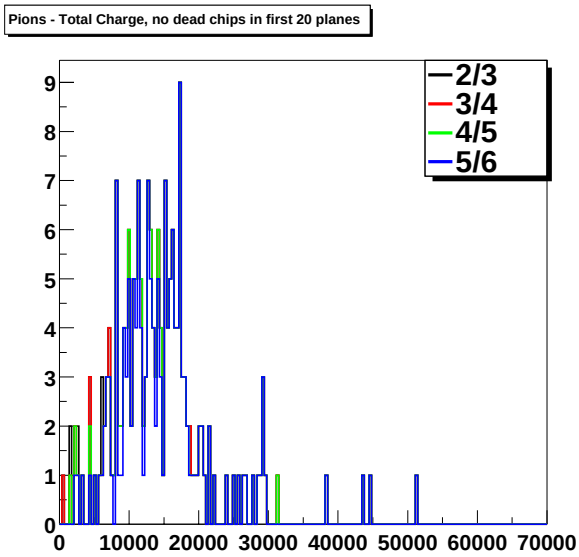


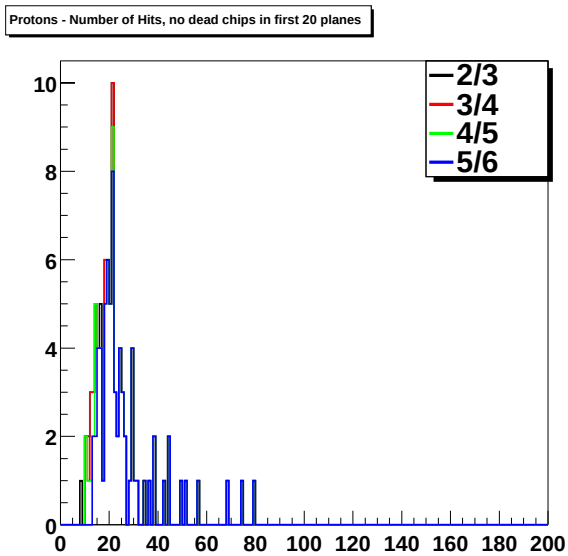


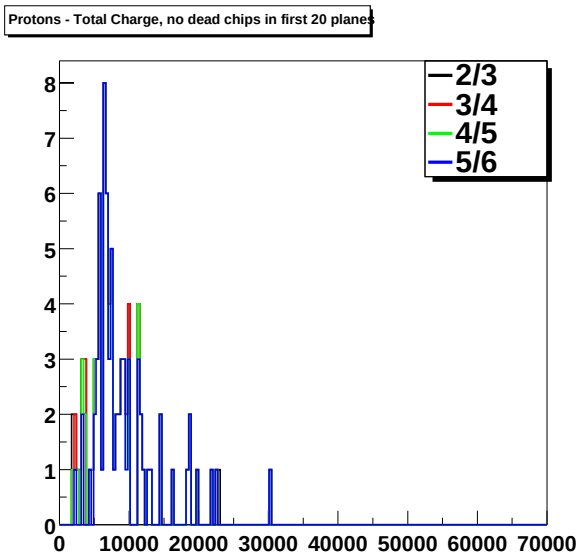
Pions and Protons

- Events with no dead chips in first 20 planes
- Low statistics, but looks good so far
  - Samples clearly different
  - Trigger independant









Conclusions

- Dead chips are a big issue at CalDet
- But not an insolvable problem
  - Have isolated a fairly clean electron sample
  - Can also isolate p and π—low statistics so far, but have more data