

Proto2

Status Report

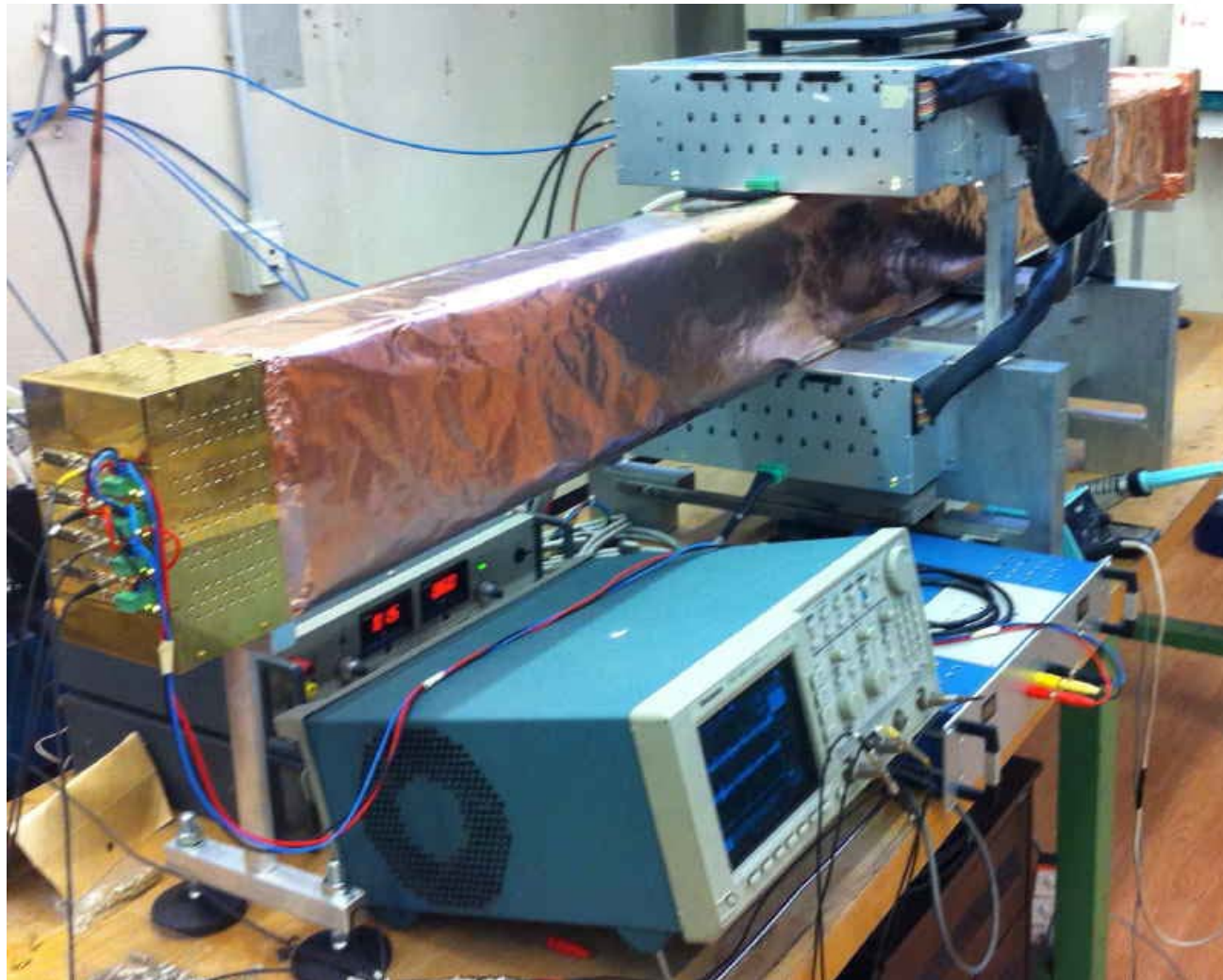
DCH R&D Meeting 27 July 2011

G. Finocchiaro - LNF

Proto2 Status (in words)

- All HV distribution and read-out boards commissioned
- Inserted inside the tracking telescope
- Only 4 channels read-out so far (DRS4)
 - goal is to be able to read all 28 channels by next week

Proto2 Status (in pictures)

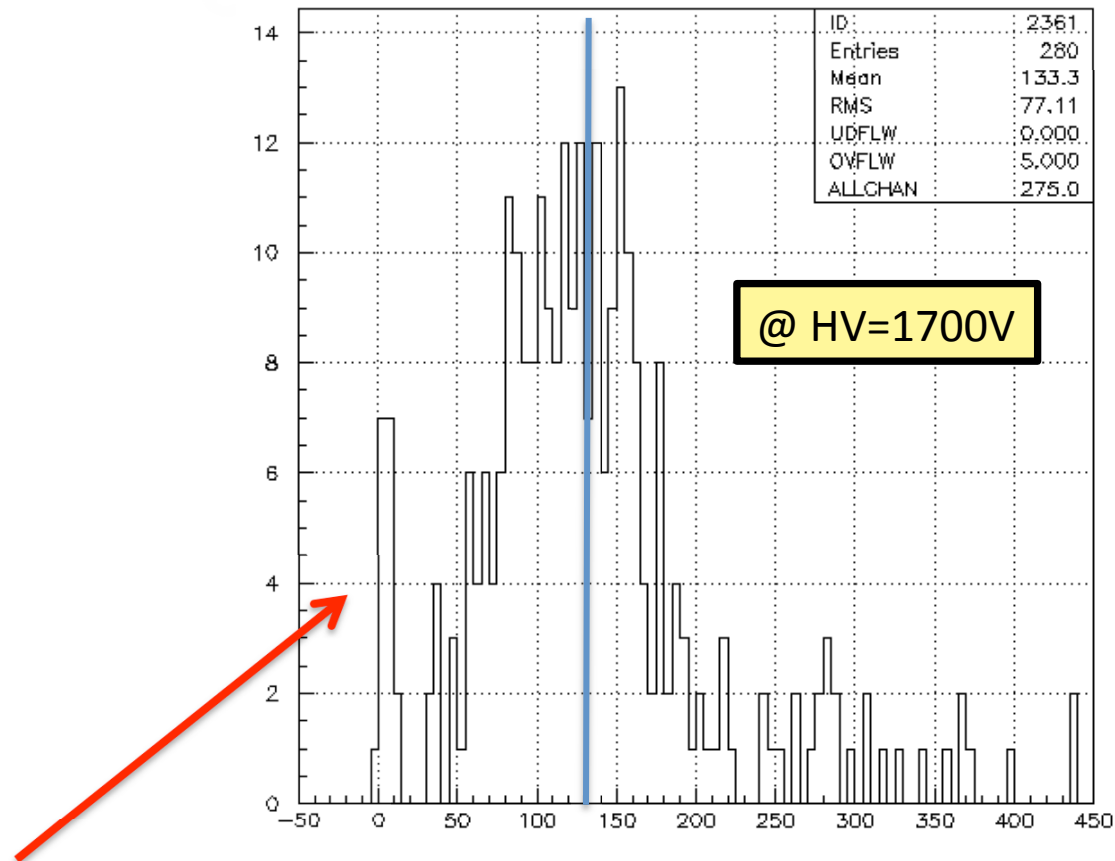


A First, Preliminary Look at the Proto2 Data

Disclaimer (in case the slide title is not clear enough):

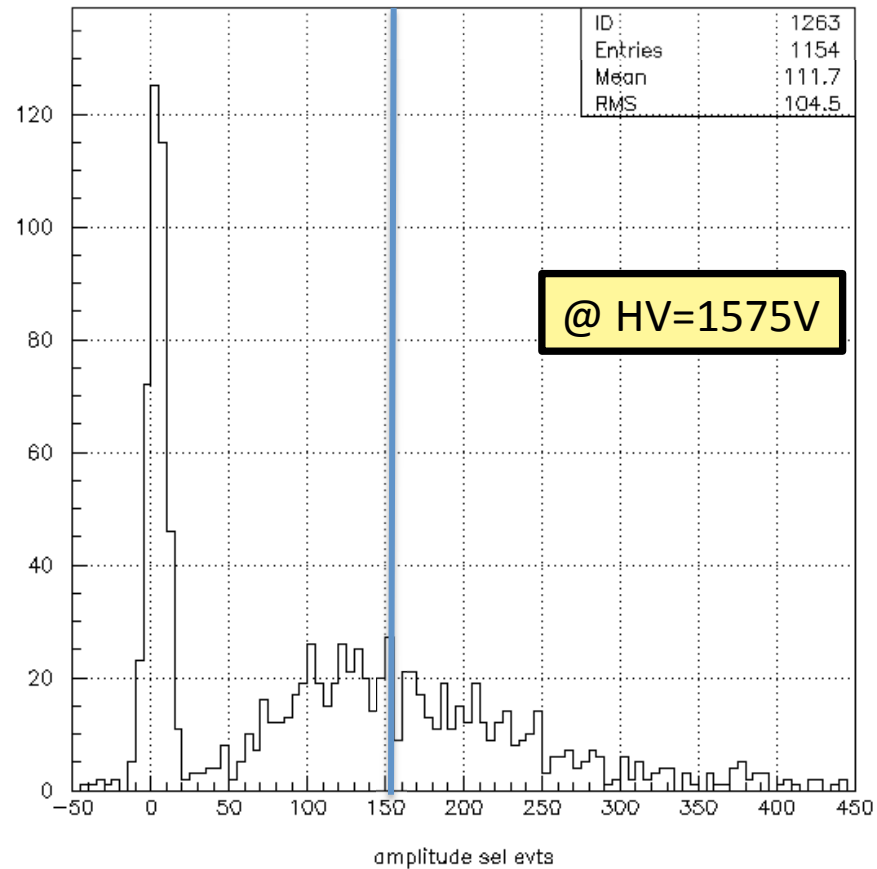
Plots and numbers shown in the
following are ultra-preliminary!

Charge Spectrum on a Cell of Proto2

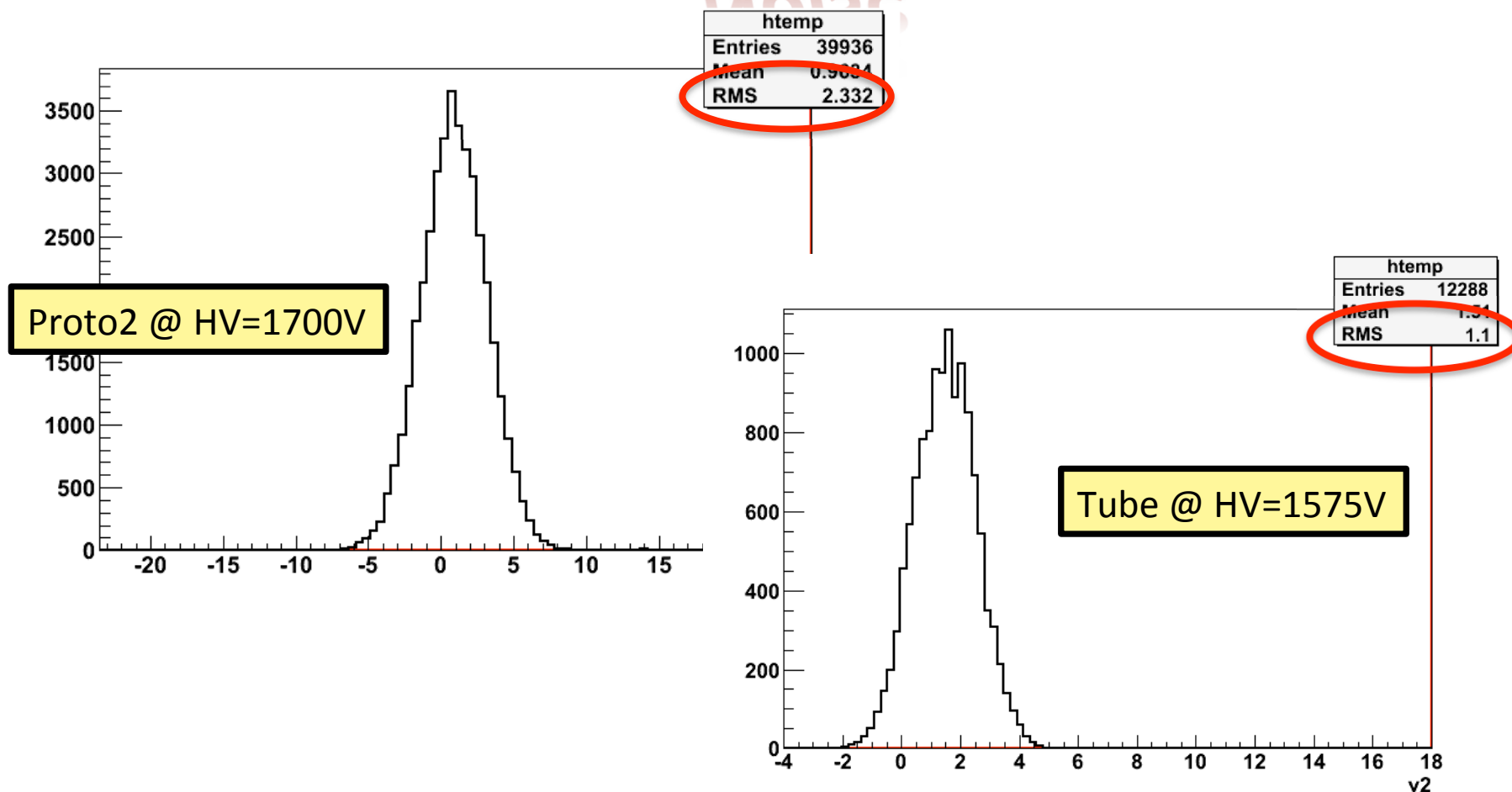


- Track impact parameter is required to be within nominal cell limits

Charge Spectrum on the Brass Tube

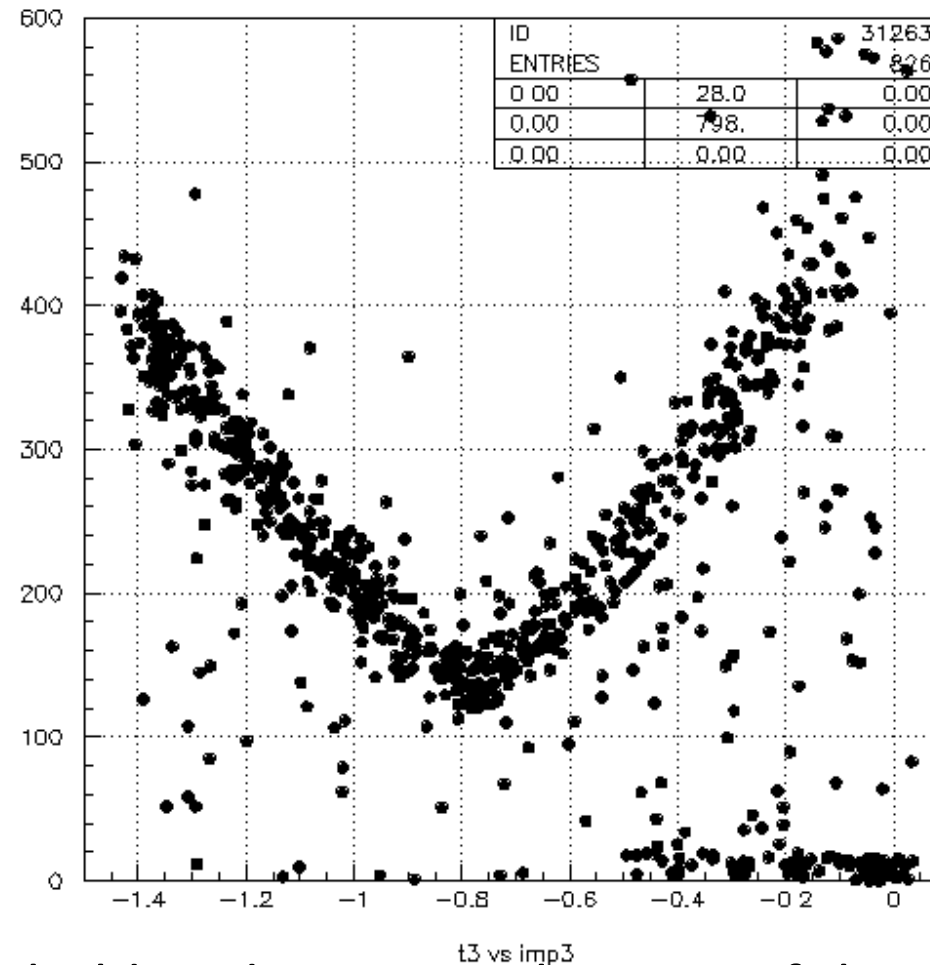


Noise



- Not as high as one could fear because of the full scale detector size (2.5m long wires, discrete cathode structure, 28 channels...), and faster preamps

A First Space-time Relation



- 5.5mV threshold to determine the time of the 1st electron
- Clearly, work is needed to understand all the details

Test Beam Plans

- One week of beam time at the BTF assigned on Nov 28th – Dec 4th
- Financial request submitted to run a beam test in 2012
 - PSI? CERN? TRIUMF?