TOF Status

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CDF Thursday Meeting
November 18, 1999

- Update on Mechanical/Installation

- PMT Testing at Tsukuba

PMT Testing in Japan

- Hamamatsu sends tubes to Tsukuba.

- We test them in a 1.4-T field using the Ushiwaka magnet at KEK.

- Use a N_2 laser and excite a small piece of BC408 scintillator at the face of the R7761 PMT.

- Test items (both at $B = 0$ T and 1.4 T):
  - Make sure tubes are not dead.
  - Look at waveform.
  - Measure gain.
  - Measure timing resolution.

- See CDF 5145 for more details of the testing procedure.

- So far tested some 40 tubes. All within specs.

Plans

- Need 48 tubes for the region to be blocked by the COT fixture.

  Want more for other hard-to-access regions: $\rightarrow$ a total of $\sim$ 160.

- 34 tubes tested and shipped to FNAL, ready for assembly.

- Delivery schedule by Hamamatsu:
  - 75 on Nov 27. (25 of them on Nov 19).
  - 25 on Dec 22.
  - 44 + 34 on Jan 20, 2000.
  - 98 on Feb 17, 2000.
  - 45 + 85 later.

- Ushiwaka magnet availability constrained by KEK operation schedules. Tests planned on:
  - Nov 19 - Nov 22.
  - Dec 25 - Dec 28.
  - Jan 5 - Jan 8, 2000.

  Also after Feb 9, 2000.