

Beam test preparation meeting at KEK, Jan. 30, 2004

Adachi: date will be March 3 (or 4) until 10 (or 11?), in the middle break for PS machine studies. Guaranteed 20 shifts. Feb. 3: we will know details. We are sole users, can move the apparatus upstream, expect a much better beam (less spread out, higher rate).

Peter presents a proposal of a list of aims, required statistics, and experience summary of the Nov 2002 beam test.

Discussion what could be done to improve the DAQ rate.

- Higher rate expected because beam conditions (see above)
- Matsumoto: expect to increase the fraction of events with complete ADC information from RICH1, will work on that, less chance to repair the more serious buffer shift problem
- What is the reason for the buffer shift problem?
There seems to be no problem during on-the-bench tests, with VME TDC read-out, read out by a PC. Use of ADC with fifo? Long cables? Are multihit CAMAC TDCs the reason for trouble? What was the reason for good efficiency in rund around 150?
- Iijima: If the use of CAMAC TDCs is a problem, could we switch over to VME only? We had problems in the first beam test: ask Samo. Also: is the problem the specific model (CAEN)?
- Will discuss these issues again next Friday, last chance before the equipment is shipped to KEK.

- Mastumoto plans to continue PMT gain and homog. tests for the next two weeks. Peter: could this tests be done later, and we first try to solve the DAQ issues?
- Matsumoto: further issue: 2 analog. mem. are broken, have to replace them, after that no spares left!
- Any chance that Samo comes earlier so that there is enough time for the preparation and test in the lab?

Adachi: aerogel status. We will have the same set of aerogels available as last year. In addition we have

- 4x4x1 cm**3 samples of $n=1.05$ and 1.06
- we might get some more from a batch of mid Feb.
- hexagonal tiles: cutting will be tried
- glued on support: no suitable glue has been found up to now, will try DP190, solid glue used in ACC

Matsumoto: RICH1 photon detector has been modified, can be shifted at larger angles back into the beam, we can now take data at angles up to 30deg.