

MINI-VERTEX MEETING

Minutes of the meeting held on January 5, 1989

Present: F.Bosi, H.Dietl, E.Focardi, M.A.Giorgi, G.Lutz, H.G.Moser, A.Schwarz,
R.Settles, G.Tonelli, G.Triggiani.

DETECTORS (Pisa) - Electrical test is going on a new batch of detectors. 11 of them have been measured, showing in 4 cases less than 5 strips/detector with a current higher than 20 nA. This batch will be scanned completely within the next week. However we already have a total of 16 detectors with few leaky strips and low total current, suited to be mounted in final arrangement.

A cutting test has been performed, using a scribe instead of a diamond wire saw. The optical inspection suggests that detectors cut this way are no more edge damaged than those cut by the saw. The current flowing to the strips doesn't increase after the cut.

4 or 5 bad detectors will be sent to Munich once cut, to allow for mechanical tests.

POWER SUPPLY - The first prototype delivered by Laben has been tested in Florence. Some troubles were identified, and a ripple of about 100 mV affected the bias line. A new prototype, improved following our suggestions, will be delivered next week.

G. Parrini will test this second prototype too, until the end of January. In case of a satisfying behaviour of this object the firm will deliver us 1 crate completed with a crate controller and 2 power supply modules within February, 20.

DETECTORS (Munich) - A new detector has been tested in Munich. Big pedestal variations have been noticed, with a wave-like structure as a function of the channel number. This could be due to cross-talk, so a new test is envisaged, shielding the signal lines. New detector batches will be made using a different production line of MBB.

ELECTRONICS - The current situation of instrumented sides we own is as follows:

1 - r-phi side, old design, old production.

3 - r-phi sides, already used, to be rescued.

4 - r-phi sides, old design, new production, to be micro-bonded.

9 - r-z sides, to be equipped with preamplifier chips.

The new alumina design is finished. A prototype production can start in 1+2 weeks and be

completed within the end of February. There are few possibilities to have fully equipped new sides by the end of March. If the production of old design r-phi sides is quicker, some more will be done in the meanwhile. As soon as the sides are completed, about 1/2 of them will be sent to Pisa.

CABLES - Care should be taken that the 30 meters long cables for Minivertex are actually installed in the pit, since this seems not to be prewiewed at the moment.

CONNECTORS - E. Focardi is in charge of ordering the connectors we need for cabling, since their type has been fixed.

MECHANICS - In order to implement the string insertion system some mechanical detail has to be better understood. In particular: a frame to hold the strings while mounting the sectors and a reinforcement of the TPC feet, which have to support the string tension.

The three spokes which hold the pipe are not as stiff as prewiewed, this could imply a pipe stability under the design specifications and a re-installation of the central part of Aleph by end 89.

A design of the Minivertex sector has been presented by F.Bosi. This will be modified according to the suggestions aroused during the discussion. The design should be final in short time and we hope to approve it in the next meeting

NEXT MEETING - The next meeting is fixed on Friday, January 20, room 32-RA 18