

**MINI-VERTEX MEETING**

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Minutes of the meeting held on April 18,1986

Present: M.Bosman, H.Dietl, E.Focardi, F.Forti, M.Giorgi, P. Holl, G.Lutz, R.Settles,  
G.Tonelli, G.Triggiani.

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**SOFTWARE** - G.Triggiani reports on progress made in writing the Minivertex part of the Aleph detector Montecarlo, Galeph. The geometrical description of the Minivertex detector is coded and tested in the frame of Geant 3, while the hits part, i.e. the calculation of geometrical intersections between charged particle tracks and the Minivertex layers, will be ready for the Aleph week in May. The digitization part, that is the calculation of the signals on the strips, is likely to be ready soon.

**CABLES** - E.Focardi reports that tests will be made soon on cable samples obtained from several firms. Tests will concern electrical and mechanical characteristics of cables as long as radiation damage. The problem of cables path is still to be solved, as the solution of D.Miller, with a sort of guide fixed to the ITC tube, seems to present problems because of excessive mechanical stress on cables.

**MECHANICS** - E.Focardi reports that the Monfrini firm will produce 2 Minivertex prototypes for the end of July. The first one consists of the Minivertex tube and the terminal flanges for tests on cables and stability. The second one should be a full prototype.

**ELECTRONICS** - G.Lutz reports on results in chip production. There are 3 working chips in the run and tests have been made both on the shift register and on the front-end amplifiers. The latter have been tested as voltage followers showing only few (2-3) fault channels per chip. Problems were found in testing the front-end part as charge sensitive amplifiers because of lack of protective circuitry. Even though the efficiency is rather low there seems to be no fundamental error in chip design.

**DETECTORS** - M.Giorgi reports that the second bunch of test detectors with double face readout is not ready yet because of a 6 weeks delay due to masks production.

**NEXT MEETING** - The next Mini-vertex meeting is fixed on Wednesday, 14th, 1986, at 16.30 p.m. in the room 32 RA18 (New Building Z)