PS/LP Note 94-46 (Min.)
7. 10. 1994

CLIC/PS

NEXT MEETING : FRIDAY 4 November 1994

9.00hrs in the large PS Conference Room

J.H.B. Madsen

AGENDA

1.	The beam line between the 1 m LAL section and TRS by:	F. Chautard
2.	A solution for recombining two beams in the CTF by:	L.Rinofi
3.	The magnetic bunch compressor which will be installed early next year in the CTF by:	F. Chautard

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Summary on the CLIC/PS Meeting 21/10/1994

1. The polarized electron source of the MANI accelerator by: K. Aulenbacher

The GaAs0.6P0.4 cathode is mounted in a dc gun. A longitudinal polarization of about 40% is achieved. With a pressure of 10^{-11} T in the gun, an acceleration gradient of 1 MV/m on the cathode (100 keV beam) and an average current of 10.10^{-6} A , the cathode's lifetime is long if one recesiates the surface from time to time. The laser spot is well defined: 0.29 mm in diameter.

This type of cathode is sensitive to breakdowns and to the field emission current. The destruction of the cathode surface can be cured with a heat treatment.

2. A decision on the CTF beam line in 1995

As proposed : LAS will be replaced by the 1 m LAL section and the probe beam left in place.

In addition a screen with ccd camera will be installed in the section created for testing beam monitors (it was mentioned that transfer structures could be tried in the section also).

F. Chautard showed solutions for the optics between the LAL section and TRS. Work still in progress.