Accelerator Physics Seminar
Tuesday August 12, 2003
(16:00 in Room 459/30b)

Operational experience with the Sub-Picosecond Particle Source (SPPS)

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Abstract

To produce ultra–short X–ray pulses a bunch compressor chicane has been installed in the SLAC linear accelerator. In three stages, the electron beam is compressed longitudinally to an rms bunch length of 10 μm and passes an 2m long undulator recently installed in the FFTB beam line. In this talk, I present the experience gained during the commissioning and operation of the sub-picosecond beam, the different diagnostics tools used together with first experimental results.

D.P.Barber (MPY) and M.Vogt (MPY).