Joint DESY and University of Hamburg Accelerator Physics Seminar

Tuesday October 26, 2004

(16:00 in Room 459/30b)

Direct Wire Readout for the Hasylab–Zeuthen–Wirescanners

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Abstract

In the classical wirescanner the wires were used to scatter beam particles. The scattered particles are detected by a scintillator counter with a photo multiplier tube (PMT).

Together with the established position of the wire axis a maximum of the PMT–signal determines the true coordinate for the beam location. In addition to this information we want to read out the charge induced on the wire when the beam is passing by.

We will give a short introduction into the physical problem of detecting the influenced signal, the possible realization of the necessary detector electronics and show preliminary results of PITZ- and TTF1–measurements of direct wire charge readout for the Hasylab–Zeuthen–Wirescanners.

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