

ACCELERATOR SEMINAR

Sajjad Hussain Mirza

GSI Helmholtzzentrum für Schwerionenforschung GmbH

Thursday, 8th March at 4 p.m.

KBW lecture hall

Planckstraße 1, 64291 Darmstadt

“Closed orbit feedback system for SIS18 synchrotron”

Closed orbit feedback system is under development at GSI for the orbit correction in SIS18 synchrotron during the whole acceleration cycle including the ramp. The introduction to the project and status of the investigations so far has been presented. Prime focus of the talk is on the spatial process model of the closed orbit. A DFT based decomposition of the orbit response matrix has been proposed as an alternate to SVD, for online matrix inversion during ramps of different lengths. Moreover, DFT modes have been found to provide robustness in case of one or two missing BMPs.



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