

ACCELERATOR SEMINAR

Dr. Manuel Heilmann

GSI Helmholtzzentrum für Schwerionenforschung GmbH

Thursday, 22nd June at 4 p.m.

KBW lecture hall

Planckstraße 1, 64291 Darmstadt

“Prototype Cavity of the new FAIR post-Stripper Linac”

The design study describes the prototype Alvarez-tank of the new post-stripper of the UNILAC. A prototype with 11 drift tubes (including quadrupole singlets) of 1.9m of total length and 2m of diameter will be manufactured. This cavity features new drift tube shape profiles to provide for high shunt impedance at a maximum electric surface field of 1 EK. Additionally, it allows realization and high power testing of an optimized stem configuration for field stabilization. In case of successful tuning and long-term operation at high power level, it shall be used as a first of series cavity of the new UNILAC post-stripper DTL.



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