

ACCELERATOR SEMINAR

Dr. Anna Rubin

GSI Helmholtzzentrum für Schwerionenforschung GmbH

Wednesday, 14th June at 4 p.m.

KBW lecture hall

Planckstraße 1, 64291 Darmstadt

“Beam dynamics Design of the new FAIR post-Stripper Linac”

The beam dynamics design of the new post-stripper DTL is under development in GSI. Five Alvarez tanks with four inter tank sections provide 100% transmission and low emittance growth. The inter tank sections allow for matched envelopes and provide space for diagnostics. Simulations along the complete Alvarez DTL were done for $^{238}\text{U}^{28+}$ using the TraceWin code. The transverse zero current phase advance is 65° for each tank. Results of beam dynamics simulations for six different scenarios as well as an error study for the FAIR nominal case are presented.



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