

ACCELERATOR SEMINAR

Faraz Amjad

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Thursday, 15th March at 4 p.m.

South building lecture hall
Planckstraße 1, 64291 Darmstadt

"Remote handling for the Super-FRS components"

The Superconducting Fragment Separator (Super-FRS), at the Facility for Antiproton and Ion Research (FAIR), is a unique machine that presents several exciting technical design and development projects. One of these significant projects is regarding Super-FRS target area components maintenance, where high levels of radiation will be generated and human access is prohibited. The separator in the target area will be surrounded by many meters of iron and concrete shielding with beam line vacuum chambers are connected by pillow seals up to 1.2m wide. Inside the chambers, the beamline inserts (target and beam catchers mounted on shielding plugs) suffer from radiation damage due to the heavy ion beam and regular maintenance will be required. The Remote Handling (RH) systems will be used to conduct remote inspections and maintenance for the Super-FRS components. This contribution will present the background to remote handling, current remote handling technical aspects for the Super-FRS target area components, and an overview of the Super-FRS remote handling setup (design and development).



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