

PhD Projects @HSP – BRAID-GSI

Welcome Smiriti Sharma
BRAID Context @GSI

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- Smiriti Sharma has been accepted as a PhD candidate in the Department of Physics at Johan Wolfgang Goethe University, Frankfurt, with supervisor Prof. Dr. Klaus Peters.



- Best wishes and GREAT SUCCESS to Smiriti with her doctoral studies!!
- At GSI, Smiriti Sharma is a member of the HSP department.
- The PhD thesis of Smiriti is focused on BRAID (funded BMFTR Project) with A.Belias as the PI at GSI (<https://www.erumdata-braid.de/>)

Context of BRAID at GSI

- **BRAID – Bridging Domains: AI-Driven Agnostic Reconstruction Frameworks for Irregular High-Dimensional Data**
- The BRAID consortium includes AI/ML experts of RPTU, and members of the communities High Energy Physics, Astro-Particle Physics and Hadron- and Nuclear Physics and also industrial partners.
- At GSI, we pursue the BRAID context at two levels:
 - a) the maximal reuse of detectors from HEP in Hadronphysics experiments.
 - a) Use of the LHCb Outer Tracker straws detector.
 - b) the optimal deployment in various beam-lines for Hadronphysics, at FAIR (CBM, PANDA) and elsewhere.
 - a) Muon detector MuSt in CBM/MuCh.
 - b) Muon Range System at PANDA FS.