GSI and TU Darmstadt (SPG) Optimal Parametric Estimation of Schottky Spectra



- Estimation of schottky spectra based on parametric models with high precision and high resolution
- Extraction of important parameters, such as tune, chromaticity and momentum spread

Challenges

- Disturbances from the environment and the schottky PUs
- ► Signal deformation by space charge effects

Research

 Develop advanced robust signal processing tools for large dynamic range of parameters