

## Interpretation of BTF-based tune measurements close to a 3rd-order resonance at HIT

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The beam response to an external periodic excitation delivers relevant information about the ion-beam optics, tune distribution and stability of a circulating beam in a storage ring. In this contribution the horizontal beam response under conditions typical for slow extraction is presented for a coasting beam. The resulting spectrum exhibits a splitting behaviour. The single particle dynamics is discussed and an interpretation based on simulation results is presented.

**Primary author:** CORTES GARCIA, Edgar Christopher (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

**Co-authors:** FELDMEIER, Eike (HIT); BENEDETTO, Elena (CERN); HUN, Marcel (Heidelberg Ion-Beam Therapy Center); NIEDERMAYER, Philipp (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI)); SINGH, Rahul (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI)); TAYLOR, Rebecca (CERN / Imperial College London); HABERER, Thomas (Heidelberg Ionbeam Therapy Center)

**Presenter:** CORTES GARCIA, Edgar Christopher (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

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