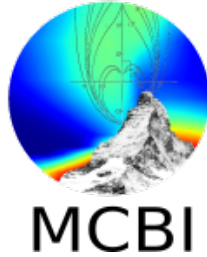


ICFA mini-Workshop on "Mitigation of Coherent Beam Instabilities in particle accelerators" MCBI 2019



Contribution ID: 106

Type: **not specified**

* Landau damping with an electron lens

Tuesday 24 September 2019 19:30 (10 minutes)

Electron lenses are one of the ways to provide incoherent betatron tune spread for Landau damping of transverse coherent beam instabilities. We investigated the effect of transverse electron beam profile size and shape for Landau damping with electron lens. Another point of interests is Landau damping provided by a pulsed electron lens with homogeneous transverse beam profile. This type of electron lens is developed for space-charge compensation in SIS18.

Authors: Mr GUBAIDULIN, Vadim (TU Darmstadt); KORNILOV, Vladimir (GSI Helmholtzzentrum Darmstadt, Germany); BOINE-FRANKENHEIM, Oliver (TU Darmstadt); METRAL, Elias (CERN)

Presenter: Mr GUBAIDULIN, Vadim (TU Darmstadt)

Session Classification: Poster Session