



Contribution ID: 99

Type: **invited talk**

Matching beams into plasma-based accelerators

Thursday, 17 September 2015 09:50 (40 minutes)

The conservation of the quality of beams externally injected into - or extracted from - a plasma accelerator stage is very challenging, mainly due to the huge focusing forces inside the plasma. In particular, a proper matching of the beam is mandatory to prevent irreversible emittance spoiling. We will summarize the underlying beam dynamics and discuss practical methods envisaged to fight against any detrimental dilution.

Primary author: MAIER, Andreas (CFEL/UHH)

Co-authors: DORNMAIR, Irene (University of Hamburg); Dr FLOETTMANN, Klaus (DESY); Dr MEHRLING, Timon (DESY)

Presenter: MAIER, Andreas (CFEL/UHH)

Session Classification: Plenary 7