



ACCELERATOR SEMINAR

Dr. Carl Kleffner

GSI Helmholtzzentrum für Schwerionenforschung GmbH

Thursday, 12th October at 4 p.m.

KBW lecture hall

Planckstraße 1, 64291 Darmstadt

"Status of the FAIR pLinac"

The pLinac injector comprises an ECR-type high current proton source followed by a ladder 4-rod RFQ and six normal conduction CH-DTL accelerator cavities. This unique design allows for a compact structure by using many not yet established accelerator technologies. The design of the cavities has been completed by our collaboration partners at IAP Frankfurt. The design of the buncher cavities, the mechanical integration as well as beam diagnostic devices are currently under development. The construction of a new modulator for the pLinac RF-system has been started on site. The proton source and the LEBT as well as the subsequent chopper are currently setup at CEA/Saclay. The commissioning phase of the proton source at Saclay started at the beginning of 2017. In order to enable beam tests using the new developed ladder RFQ at an early stage it was decided to set up the building for the pLinac much earlier than originally scheduled. In this presentation an overview of the pLinac main parameters and design choices will be given, and the overall status will be reported.



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