



## Fakultät für Physik Isotopenphysik

Stefan-Meyer-Institut für subatomare Physik

EINLADUNG
zum gemeinsamen
VERA-SMI-WEBINAR
von

## Oliver FORSTNER<sup>1,2,3</sup> for the SPARC Collaboration<sup>4</sup>

<sup>1</sup> Friedrich-Schiller-Universität Jena <sup>2</sup> Helmholtz Institut Jena <sup>3</sup> GSI Helmholtzzentrum für Schwerionenforschung GmbH <sup>4</sup> Stored Particles Atomic Physics Research Collaboration at FAIR

## **CRYRING@ESR** the first FAIR storage ring in operation

CRYRING@ESR is the first operational heavy ion storage ring of the FAIR project (Facility for Antiproton and Ion Research) [1]. It has a long history of successful research in atomic and molecular physics during its two-decade operation as a central research facility of the Manne Siegbahn Laboratory in Stockholm, Sweden. After its shutdown it was decided to transfer CRYRING to FAIR/GSI as a Swedish in-kind contribution to the FAIR project. Starting in 2015 it was modernized, adapted to FAIR standards and connected to the existing experimental storage ring ESR under the project name CRYRING@ESR. In 2017 first ions from a local ion source could be stored and in the end of 2019 first ions from ESR were successfully transferred and stored in CRYRING@ESR. Despite the difficult situation due to SARS-CoV-2 in spring this year a reduced physics program during the GSI beam time block could be performed. For the next two years approx. 400 8-hour shifts are foreseen for experiments at ESR and CRYRING. A call for beam time proposals just ended a few days ago and a large number of applications is expected.

In this seminar I will present the status of CRYRING@ESR and give an overview of the foreseen physics program together with results from the first successful experiments.

 $[1] GSI\ press\ release\ 08.06.2020,\ https://www.gsi.de/start/aktuelles/detailseite/2020/06/08/cryring\_einsatzbereit.htm$ 

[2] Physics book: CRYRING@ESR, Eur. Phys. J. Spec. Top. (2016) 225:797, http://dx.doi.org/10.1140/epjst/e2016-02643-6

## Donnerstag, 25. Juni 2020, 16:30 Uhr

Sie erhalten Link und Passwort nach Anfrage per email an: martin.simon@oeaw.ac.at

R. Golser E. Widmann