

Status Feb. 2023 on KIT Test Facilities for TA in EURO-LABS

Robert Ruprecht, Marcel Schuh, Michael J. Nasse on behalf of KIT IBPT team

KIT – Karlsruhe Institute of Technology (Karlsruhe, Germany)

EURO-LABS WP3 meeting 9th Feb. 2023



This project has received funding from the European Union's Horizon Europe Research and Innovation programme under Grant Agreement No 101057511.







- KIT summary of first steps related to the activities of task WP3.3
- Status on acc. test facilities FLUTE & KARA related to TA activities
- Milestones and Deliverables by month M6
- Offer for TA on the KIT website
 <u>www.ibpt.kit.edu/project_EURO_LABS.php</u>

ready for TA application forms and planning TA experiments

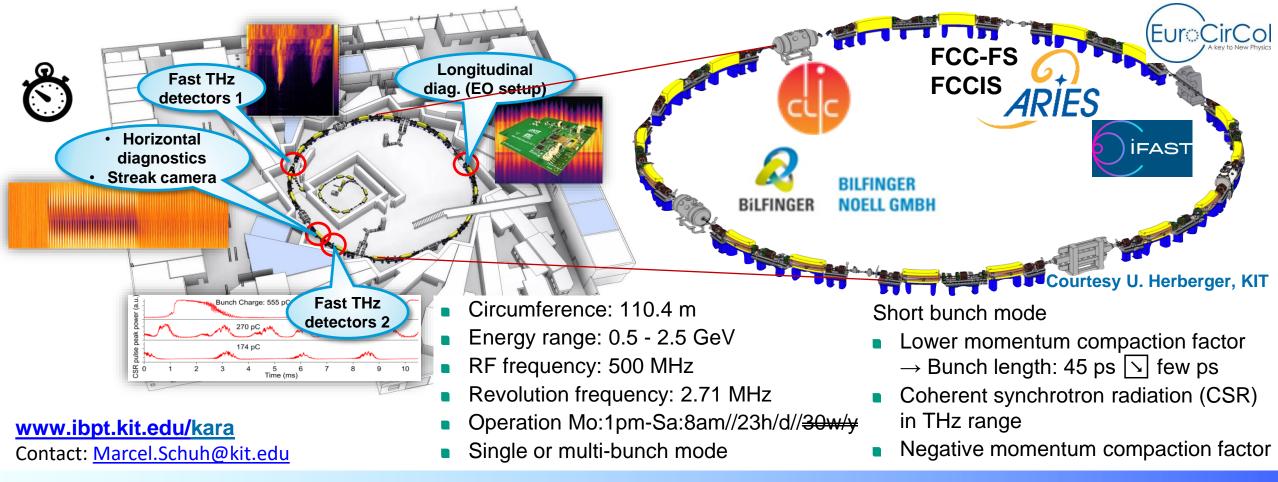


KARA ready for TA: cost increase -> UO days/a reduced

KARA (KArlsruhe Research Accelerator)

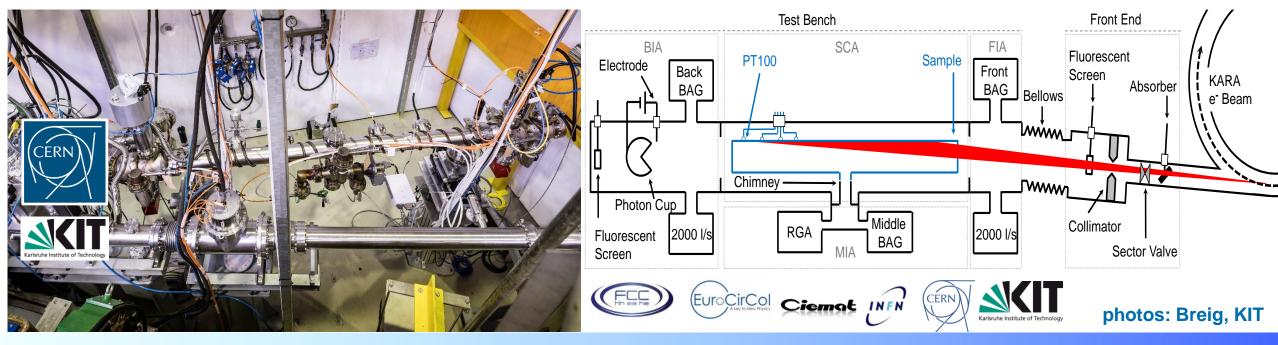
KARA = electron storage ring for the KIT Light Source & accelerator test facility at KIT

with distributed synchronized sensor network: emitted CSR, energy spread, bunch profile, phase space tomography in MBI*

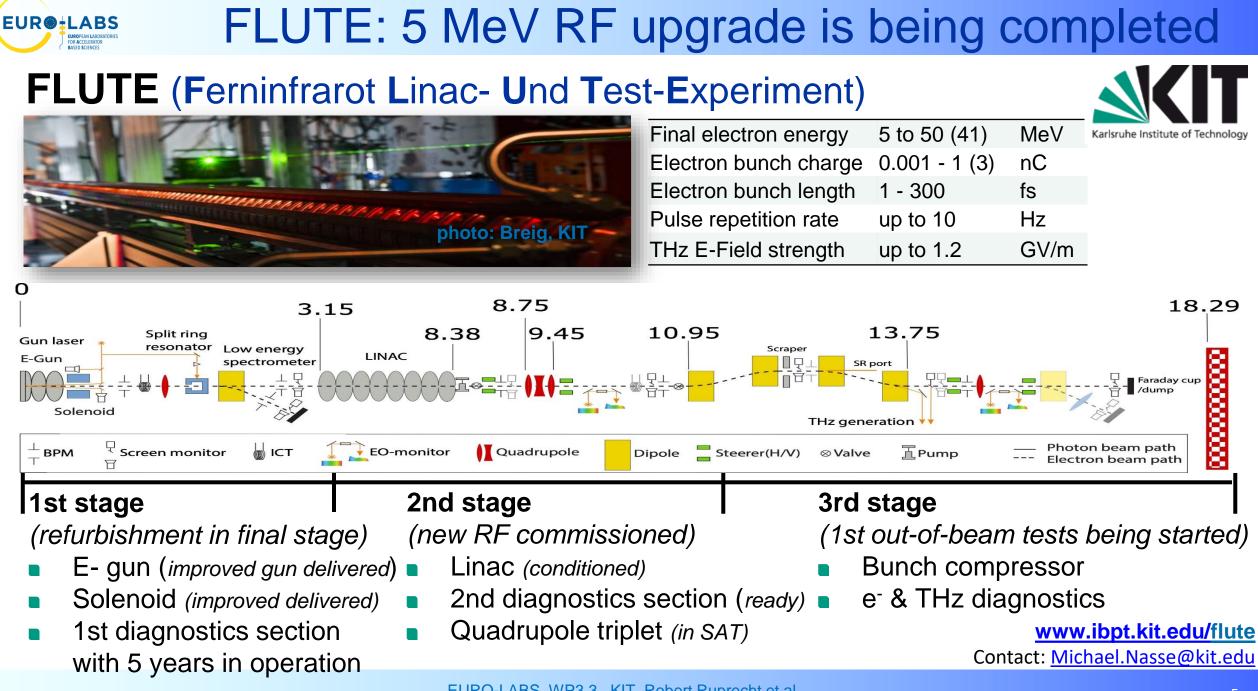


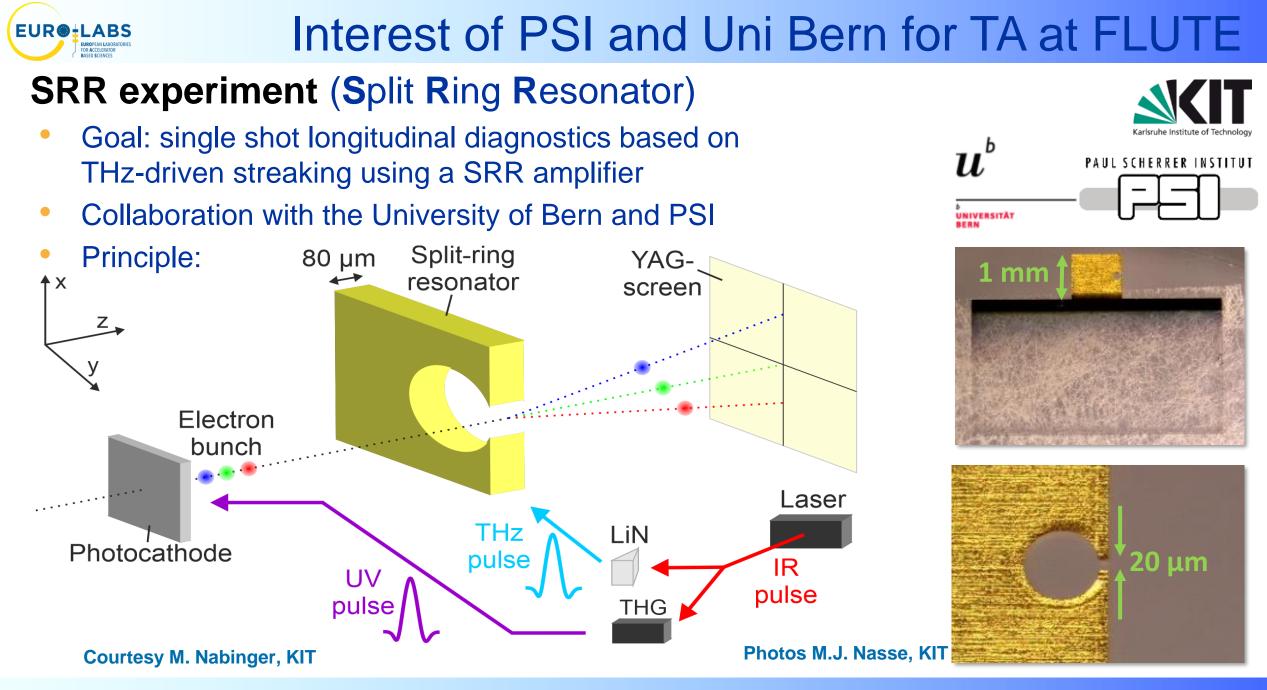


- CERN request for BESTEX beamline at KARA: 1st CERN visit at KIT on 23th Jan 2023
- photo-desorption studies on FCC vacuum chamber prototypes
- tests possible under cryogenic conditions (liquid Nitrogen cooling)



EURO-LABS WP3.3 KIT, Robert Ruprecht et al.







The accelerator team

Axel Bernhard, Edmund Blomley, Erik Bründermann, Kantaphon Damminsek, Samira Fatehi, Stefan Funkner, Julian Gethmann, Andreas Grau, Bastian Haerer, Michael Hagelstein, Erhard Huttel, Dima El Khechen, Stephan-R. Kötter, Bennet Krasch, Igor Kriznar, Katharina Mayer, Sebastian Maier, Anton Malygin, Sebastian Marsching, Yves-Laurent Mathis, Wolfgang Mexner, Akira Mochihashi, Matthias Nabinger, Michael J. Nasse, Gudrun Niehues, Marvin-D. Noll, Alexander Papash, Meghana Patil, Micha Reißig, Sebastian Richter, Robert Ruprecht, David Saez de Jauregui, Andrea Santamaria Garcia, Jens Schäfer, Thiemo Schmelzer, Patrick Schreiber, Marcel Schuh, Markus Schwarz, Nigel J. Smale, Johannes L. Steinmann, Pawel Wesolowski, Christina Widmann, Chenran Xu, and Anke-Susanne Müller

KIT Institutes IBPT, ETP, IHM, IMS, IPE, IPS, LAS

