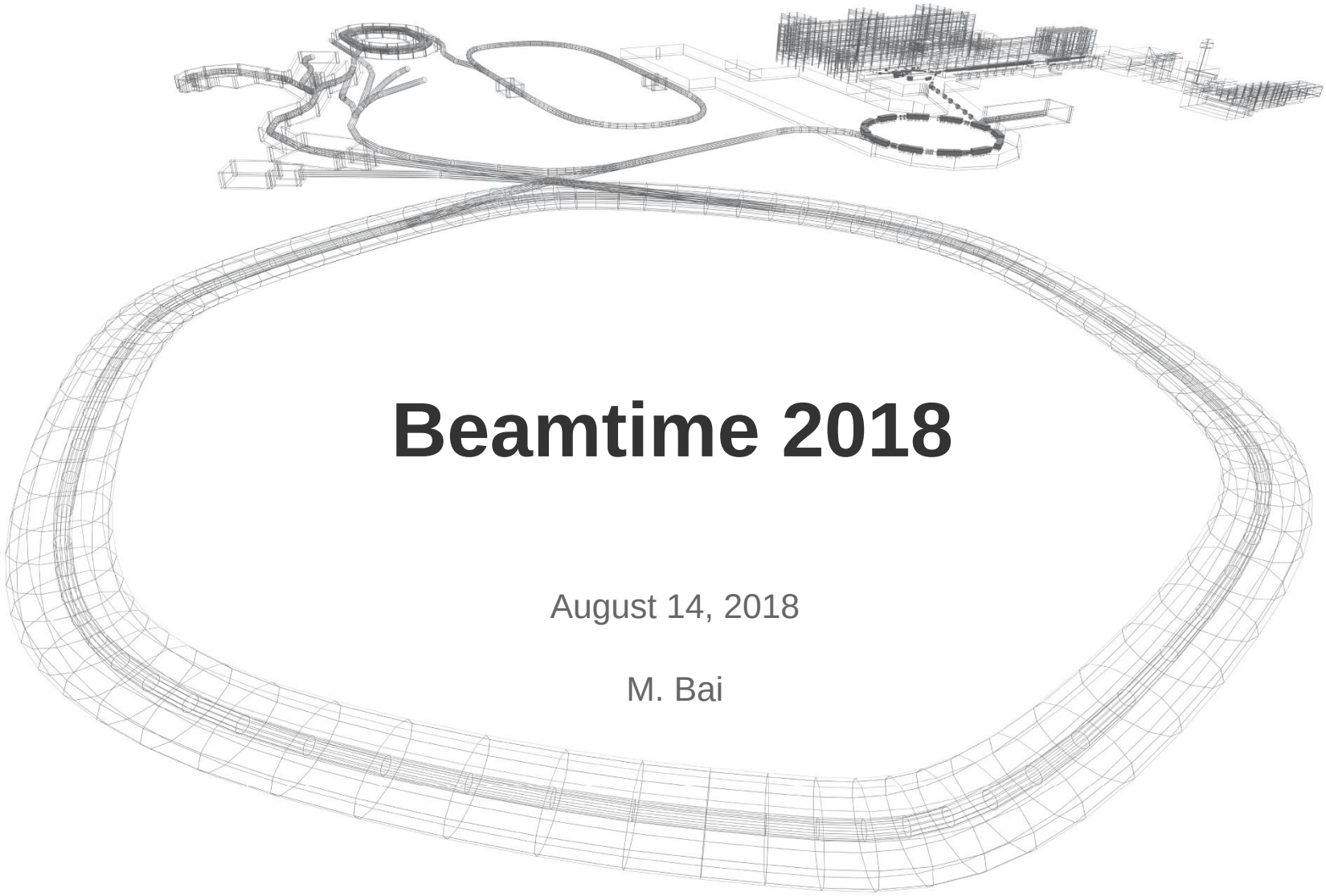
GSI Helmholtzzentrum für Schwerionenforschung GmbH



Beamtime 2018

August 14, 2018

M. Bai

LINAC RF Gallery

Restart of UNILAC RF without ER1 (B5,B6,BC3,ER1-5) - best case

M. Hörr, S. Pütz, G. Schreiber, First estimation July 18th, 2018

	16.-22.7.	23.-29.7.	30.7.-5.8.	6.8.-12.8.	13.8.-19.8.	20.8.-26.8.	27.8.-2.9.	3.9.-9.9.	10.9.-16.9.	17.9.-23.9.	24.9.-30.9.
	week 29	week 30	week 31	week 32	week 33	week 34	week 35	week 36	week 37	week 38	week 39
Cleaning of ER1 Power Supply AND Air Cooling System											
Smear Tests, toxic analysis ER1 and other RF components, Result, clearance for work											
Inspection/Opening/Cleaning of RF power supplies and RF amplifiers along the gallery											
First restart/power-up of RF systems*											
Conditioning of RF systems and unilac cavities for following beam operation**											
A4 final work and commisioning											
A4 cavity conditoning and RF system optimization (parallel to SIS commisioning) in time sharing mode (RF<>Operations)***											

*no further pollution in air colling or RF systems found

** 3rd of September RF available for operation without A4

***A4 ready but not exclusivly for operation, conditioning optimization parallel to SIS operation, sometimes few hours during day needed exclusivly for RF

Wishes for remaining beam time 2018

- HADES and FRS
  - SIS18 commissioning with Ag47+
  - excellent slow extraction
- ESR experiment E121
  - If Pb4+ is possible with HSI RFQ at 6.2volts, then E121 might be able to go ahead if
    - stored beam can be estalished
    - accumulation is possible. This requires
      - multiple injection from SIS18
      - capability to shift the stored beam to different closed orbit
    - optimization of stored/cooled beam for beam on target, i.e. closed orbit, local orbit at the target
  - Pre-requisite
    - ESR controls for the above capabilities
    - SIS18 MMTI with its e-cooler
    - ESR e-cooler
      - Can it be operated in a DC mode?
      - Needs to be first commissioned without beam