

# ESR Status March 10, 2020

- **user operation:**
  - Xe<sup>54+</sup> decelerated from 75 to 15 MeV/u, deceleration efficiency about 50 %**
  - Xe<sup>54+</sup> decelerated from 75 to 30 MeV/u, deceleration efficiency 85 %**
- in general: reliable operation so far**
- **injection efficiency was improved during run**
- **beam based vacuum measurements (lifetime, energy loss) indicate vacuum pressure higher than expected from vacuum reading**
  - ? operation of internal target with Xenon, bad vacuum in injection line ?**
- **beam profile monitor back to operation**
- **first tune measured with BPM**

