Hadron Sources and Linacs

105th section meeting
23 June 2021
News – from operation

**OP**

LINAC4: 98.3% availability, some gas retuning for stabilisation

PSB: **Water leak on BR.QFO161**, **B-beating compensation** studies on the ramp cycles during the fall of the injection chicane and **working point evolution** studies for the LHC beam to push the brightness.

PS: **LHC-type beams** with up to 72 bunches per injection and tunable bunch intensity for SPS scrubbing, MTE beam for the North Area setting up. To be noted that at **1.5e11 p/b**, the **LHC25 beam** is at the **limit of longitudinal stability** without coupled bunch feedback. Different type of beams for AD

SPS: First acceleration of 72 bunches of LHC beam to flat top up to **8.5e10p/b**

AWAKE: Set up electron beam for upstream streak alignment and beamline optics commissioning.

CLEAR: Cherenkov button BPM measurements
News-general

• 6<sup>th</sup> July : Rhodri Jones (DH) will come to visit the source test stand. I propose to prepare an introduction with an “elevator speech” for the following topics
  – Beam formation
  – Test stand layout and capabilities
  – Importance of the test stand
Planning & rotas

• Test stand
  https://cernbox.cern.ch/index.php/s/vQNUyO5PImfvtPX

• LINAC4
  https://op-webtools.web.cern.ch/planning-dashboard/#/view/782

• LINAC3
Click on [http://reorganigram.web.cern.ch/be-abp](http://reorganigram.web.cern.ch/be-abp) for any group
Beam performance tracking

- [https://indico.cern.ch/event/977106/contributions/4115288/attachments/2151415/3627489/BPT-LN4-20201125.pdf](https://indico.cern.ch/event/977106/contributions/4115288/attachments/2151415/3627489/BPT-LN4-20201125.pdf)

- For linac4: [https://bpt.web.cern.ch/linac4](https://bpt.web.cern.ch/linac4)