

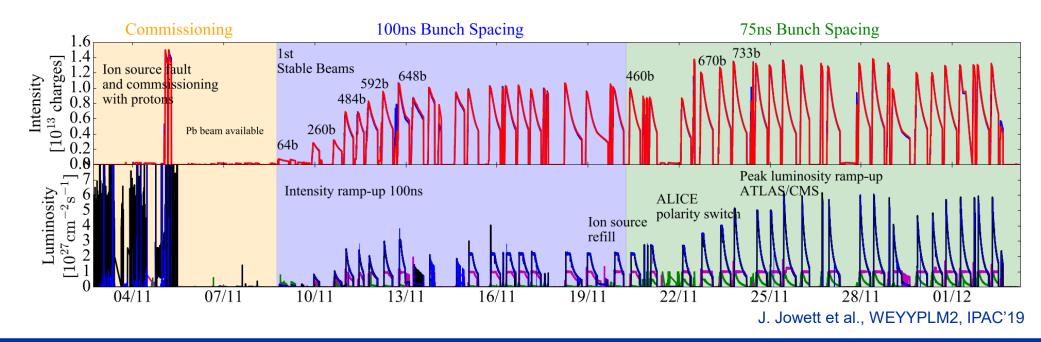
Intensity Ramp-Up for Pb Ion Run 2023

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Intensity Ramp-up: Ion Run 2018

- Intensity steps of 64b 260b 480b (combined <u>checklist</u>) 648b
- Two fills with, in total, >8h in stable beams for each intensity step
- Finally, intensity increased to 733b after ~10 days of operation with 648b





Proposal Intensity Ramp-up: Ion Run 2023

• Intensity steps:

- Cycle setup with low intensity
- 80b, one fill, >2h in Stable Beams
- 250b, two fills, >5h Stable Beams in total
- 450b, two fills, >5h Stable Beams in total
- Combined checklist before going to 850b
- 850b, two fills, >5h Stable Beams in total
- 1240b (full machine) corresponding to ~20 MJ of stored energy per beam
- Assumes that 50 ns slip-stacked beam is used from the start of the ramp-up
- After Alice polarity reversal: 1x cycle with low intensity, 1x 450b fill (>2h in SB), then full machine

