Week 47 (November 21-27): last week of proton run

- **Monday**: LHC filing process in the morning. Stable beam from 13.30 to 19.30. Electron-seeded hosing with 1E11p beam.
- **Tuesday**: beam between LHC fills: 10-12, 13.30-18.30. Proton/laser timing scans at 1/2/3E11p intensity for plasma light studies
- Wednesday: Machine Development. Access for small interventions
- **Thursday**: beam between LHC fills: 10.30-15.30. Proton/laser timing scans at increased plasma density (from 1 to 2E14/cm3). Electron/laser timing scans after protons stopped.
- Friday: stable beam from 10 to 18.30. Increased plasma density to 4E14/cm3, performed proton/laser timing scans and electron-seeded self-modulation studies. Also studied self-modulation with wide-bunch proton optics
- **Saturday**: access in the morning, then stable beam from 12 to 18. Proton/laser timing scans with nominal optics aand wide-bunch optics at increased density (7E14/cm3, nominal).
- **Sunday**: protons from 9 to 12, then 14 to 16. Wide-bunch optics at 7E14/cm3 density in the morning, proton/laser timing at 4E14/cm3 in the afternoon. Started a dataset with a plasma density gradient, but SPS power issue stopped beam.

**Plan for week 48**: magnets/RP/access interventions on Monday/Tuesday. Electron beam steering algorithm tests on Wednesday-Friday.

- Giovanni Zevi Della Porta