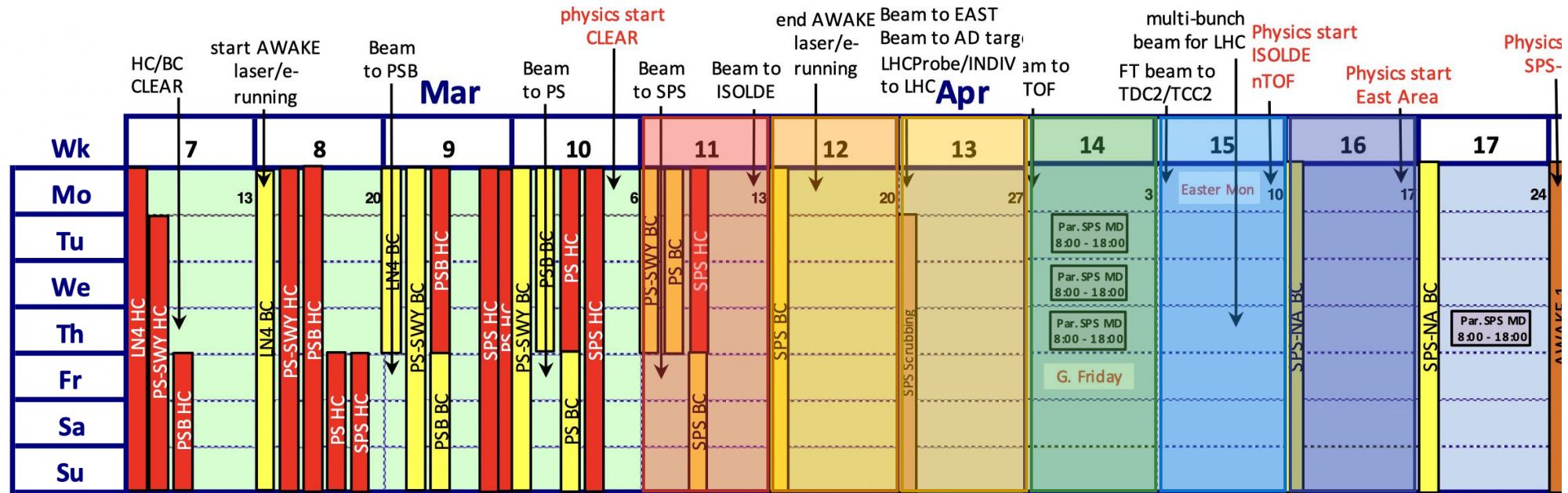


SPS report – week 13

- SFTPRO extracted to TT20 TEDs – core & core + islands @ 5e12ppb
 - Alignment girder and ZS already done
 - Noise suppression being studied the coming weeks
- HiRadMat ready on long and short cycles using LHCINDIVs
 - HiRadMat1 bunch rotation setting up still needed
- AWAKE bunch rotation setting up still needed
- Plan to send NA beam to targets on April 17



SPS beam commissioning – beams desiderata



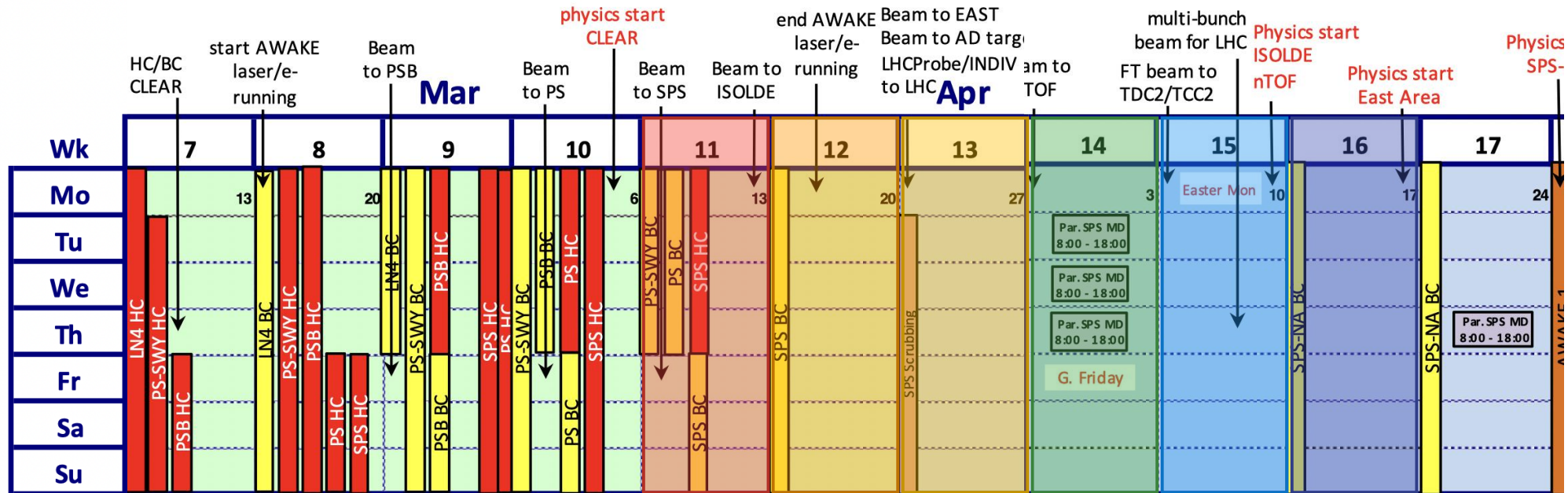
• Week 11/12:

- MTE core at $5e11$
- LHCINDIV at $1.2e11$ ppb
- **Add special beam for RF voltage calibration**
- Multi-bunch LHC beams towards end of week – standard 72, BCMS 36 & 48, up to $2.1e11$ ppb

• Week 13+:

- Multi-bunch beams for LIU studies – 72 standard, BCMS, 8b4e, up to $2.6e11$ ppb
- MTE core + island up to $5e12$ ppb per injection – vertical emittance of $4.5 \mu\text{m}$

SPS beam commissioning – 5 week overview



• Week 11/12:

- Threading beam, aperture measurements, acceleration
- BBA
- Fast extraction setting up, beam to TT40/TT60 TEDs, beam to LHC
- Multi-bunch LHC beams setting up

• Week 13:

- EPC tests with reduced power for de-gaussing
- Scrubbing with multi-bunch LHC beams
- Kicker waveform scan (MKE-6)

• Week 14:

- LHC & LIU beam commissioning with high-intensity beams
- Beam to TT20 TEDs (the latest!)

• Week 15:

- Slow extraction setting up
- Steering to targets, parallel scrubbing

• Week 15, 16, 17:

- Beam on targets, parallel scrubbing