# Linac4
Week 47

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AFT, week 47

Summary, week 47
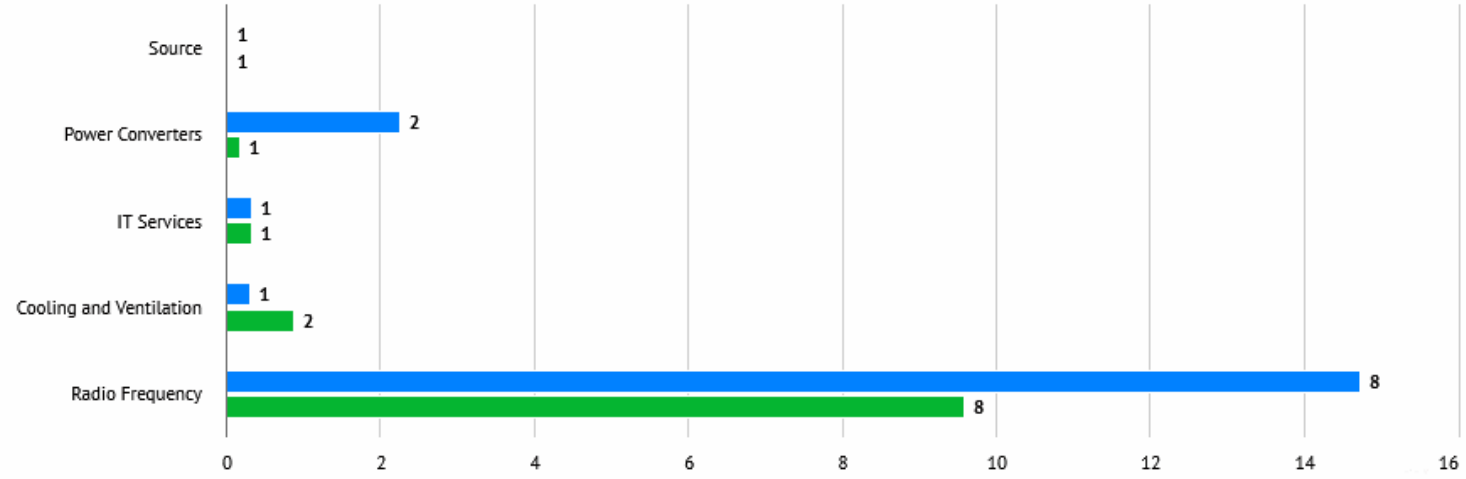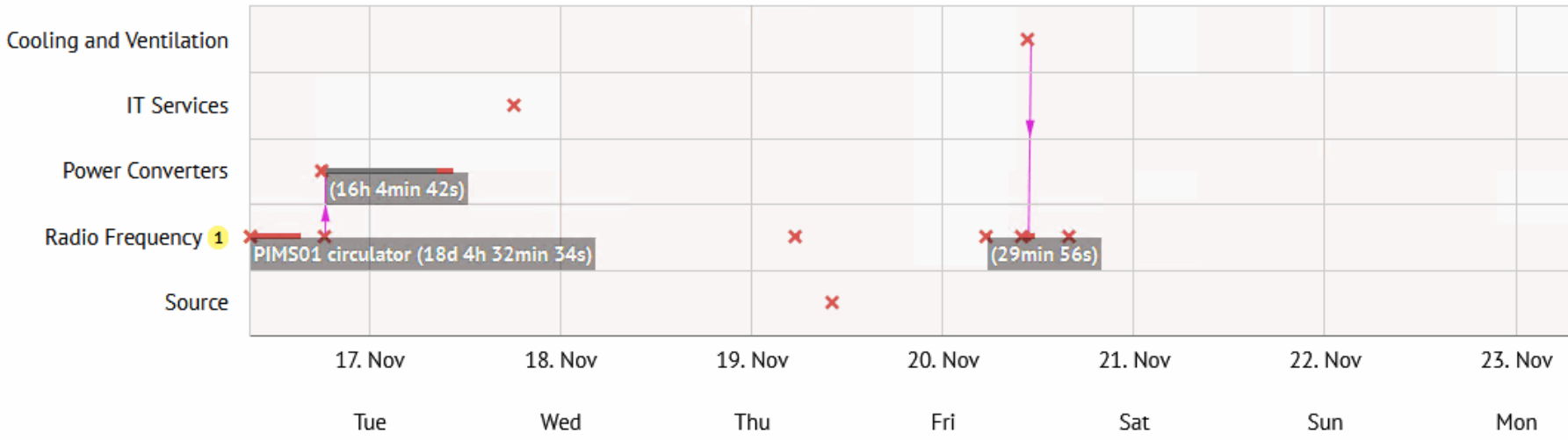
- Beam to Linac4 dump only (PSB and SWY access)

- New logbook successfully deployed

- Investigation of open aspects in phasing procedure
  - downstream cavities can be detuned or pulsed at low voltage (amplitude/100) to avoid TOF energy errors (1% amplitude, 1° phase)
  - BPM need to be well-calibrated to provide reliable TOF results
  - distance between BPMs in layout database found to be partly wrong => had to be corrected in TOF FESA class (update for layout database ongoing)
  - TOF timestamp required to be transmitted to OP-TOF application to align phase and beam energy measurement correctly

Summary, week 47

- A new method using the beam phase in 1 downstream BPM was successfully tested. It can provide an independent energy measurement.

- The phase-shifter of CCDTL5-6 was re-adjusted. Satisfactory setting reached. However, the optimum is slightly outside the accessible range of 0 to 70°.

- Linac4 was completely re-phases. Good result: Symmetric profile with sharp edges, no tails