AWAKE Week 25 (21-25 June 2021)

**WEEK 25 SUMMARY:** Laser out of order on Monday, came back on Wednesday, but another issue on Friday.
Electron beam studies and short accesses.

- **Accesses:**
  - Access System cabling intervention on TAG41 and TAG42
  - CV short intervention interrupting TAG41 ventilation
  - Maintenace puisard

- **Laser:**
  - One of the pump laser (ProPulse) amplifier flashlamps found not working on Monday.
  - Replaced on Wednesday, and system working.
  - Another ProPulse issue on Friday, this time with the oscillator. Solved with a few reboots, but it failed again after a few hours. Contacted supplier and asked for a spare system and new flashlamps.
  - Replacement planned for Week 27. Until then we have no IR
  - UV laser (for electron gun) is still working, since it does not need the Propulse

- **Electron beam:** continued commissioning Method 3 optics optimization.
  - Part 1: optimize quadrupole strengths to achieve desired size at the last BTV of the beamline
  - Part 2: transfer optics from last BTV to entrance of plasma (~1m downstream) (requires improved measurement of initial beam parameters)

**PLAN FOR WEEK 26:** Access on Monday for CV and motors interventions in Laser Room. For the of the week we will be out of IR laser, but we can continue with electron beam (commissioning new optics), and perhaps some alignment using the HeNe laser.

- Giovanni Zevi Della Porta