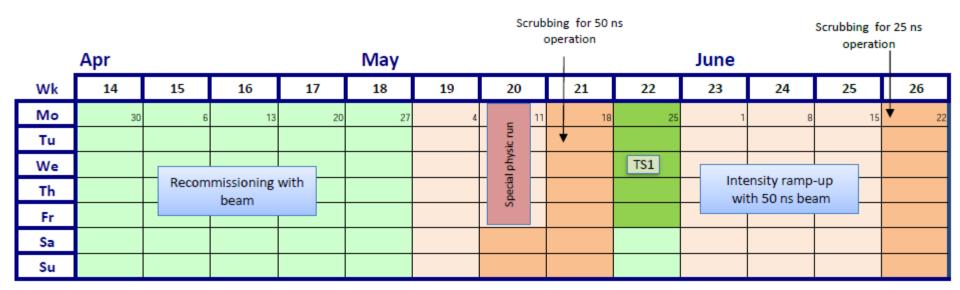
LHCf 2015

Following discussion with Hiroaki MENJO – 29th August 2014

- Questions from LMC:
 - LHCf run scheduled shortly after initial commissioning
 - can it be delayed?
 - Present plan below. LHCf to removed at first
 opportunity after run i.e. TS1 in present planning



Requirements

- Pilot run to qualify DAQ sometime before main run (pile-up not an issue)
- 11 m is OK unsqueeze not needed for LHCf
- 1.5e29 cm⁻²s⁻¹, mu = 0.01, Nb < 40, half crossing angle 140 microrad
- Integrated luminosity: 10 nb⁻¹
- Delivery rate about 0.5 nb⁻¹/hour need 20 hours Stable Beams say 2 days plus set-up

Note

- If LHCf is exposed to the high radiation levels in the TAN associated with high luminosity – it will be damaged – 2 weeks maximum at high luminosity
- Installation time:
 - 1 working week
 - 1 to 2 days physical installation plus cabling and electronics tests
- Removal time:
 - 1 to 2 days for both sides

Delay run?

- If the run is not performed initially, the detector will have to be installed and tested during a later technical stop
- The run will have to take place reasonably soon after the technical stop to avoid damage
- 1 − 2 days within 2 weeks of the run will be required to removed the detectors
- Both installation and removal will have to take place in an irradiated area – this will not be the case if the run takes place during the initial period
- ALARA strongly favours doing the run as scheduled.