

All Experimenters' Meeting

CMS and LHC report

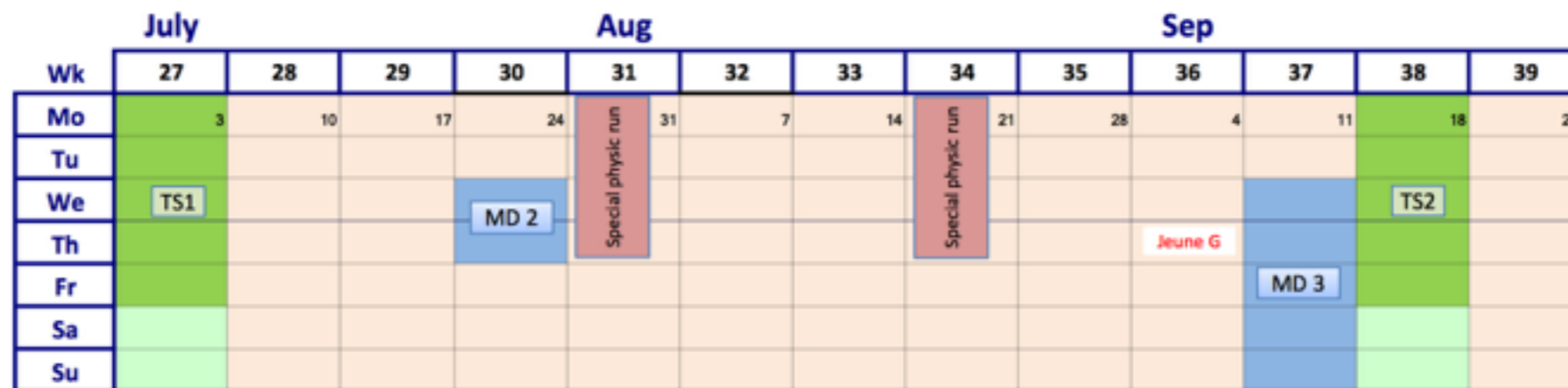
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June 5, 2017



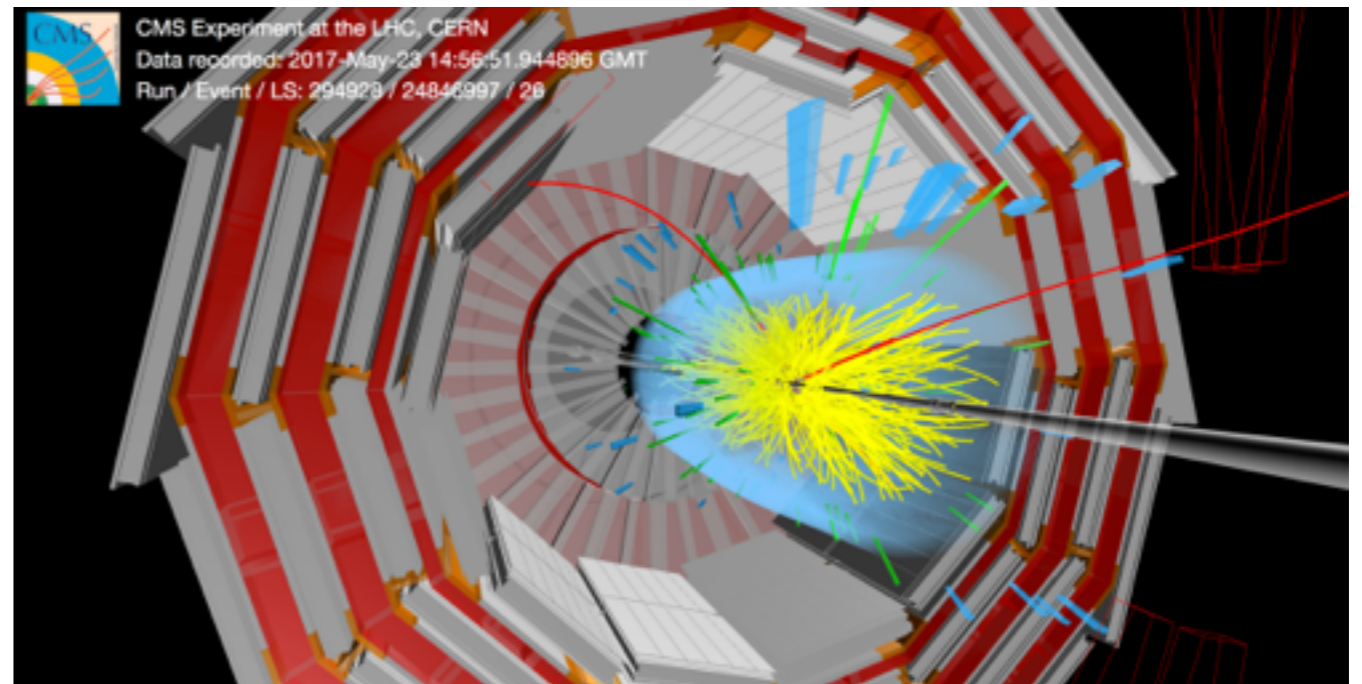
LHC schedule

- LHC recommissioning moving faster than original plan
- First stable beams declared already on May 23
- Scrubbing run starting tomorrow
- Getting ready for fast luminosity ramp up!



LHC commissioning

- First collisions on May 11th (not in stable beams)
- First stable beams on May 23rd:
Start of the 2017 Run!
- Interleaved running in stable beams and more commissioning (already 70h of stable beams)
- Fast ramp-up from 3 colliding bunches to 600 now
- Mini van der Meer scan performed for luminosity calibration



CMS status

- **Commissioning program completed** using cosmics, beam splashes, and test collisions

- Already taking data during stable beams

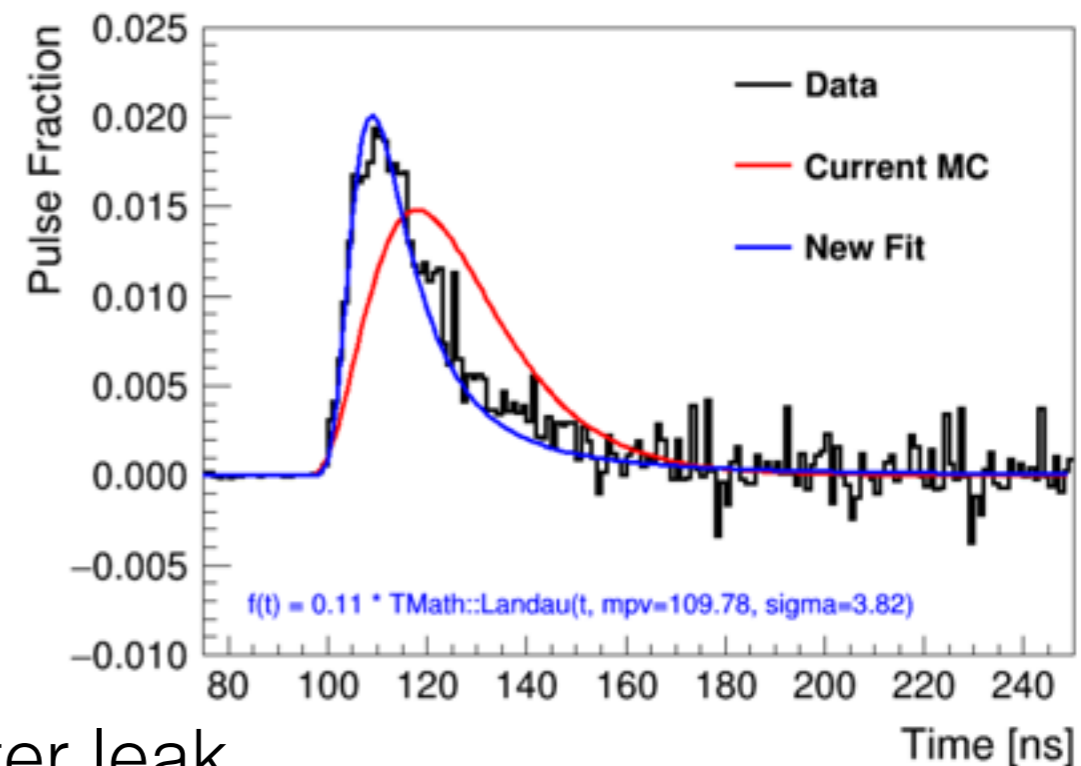
- New pixel detector running smoothly, alignment and timing being finalized

- Hadron calorimeter operating well. Phase settings for timing being finalized, SiPM pulse shape measured in-situ.

- Muon detectors running smoothly apart from some downtime due to a water leak.

- **Getting ready to take physics data**

- Finalizing trigger menu to use during luminosity ramp-up



Other news

- LHC tunnel is undergoing hydrostatic lift wrt CMS cavern
 - Beam will be shifted down magnetically by 1.5 mm to ensure symmetric illumination of the CMS detector
 - Optics have been designed to handle this without aperture limitations
- Preparing large scale MC campaign for use with 2017 data, and dedicated high-pileup MC for Phase 2 upgrade studies
- Conferences:
 - Strong showing at LHCP conference
 - Preparing for EPS (71 CMS talks and 32 posters)