



# Plans for M2 Beam Commissioning

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# BE-EA Core Team for M2



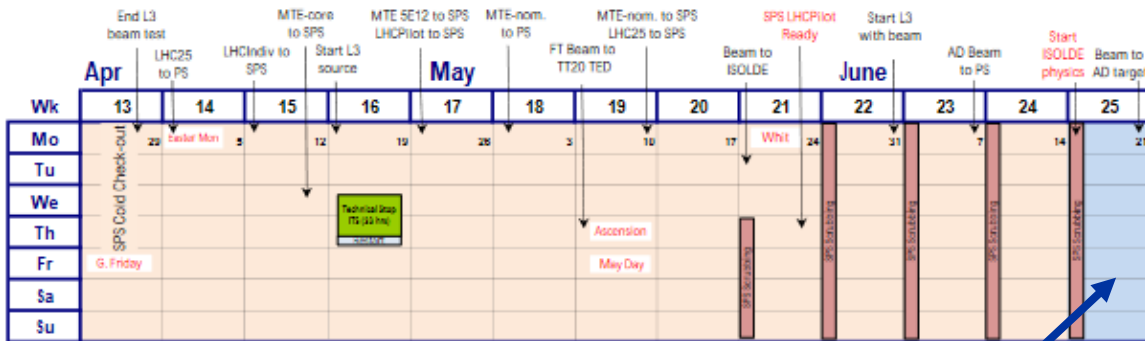
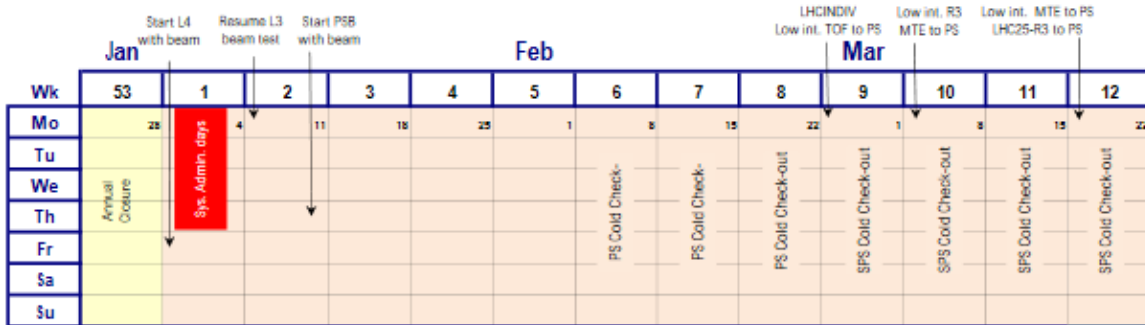
# Upcoming: Important Dates

- DSO Tests (Access system, intrusion detection): 10.06.2021 and 11.06.2021 (no access)
- SM1 and SM2 tests (Heat run, new FGC controller): Same time, in order to avoid further restrictions
- Start of Physics: 12.07.2021
- End of Physics: 15.11.2021

## User Schedule

	Jun		Jul				Aug				Sep			Oct				Nov			
Week	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Machine	TS1																				
	T6-M2	SPS & TT20 Setup 7	NA Setup 7	NA58 COMPASS 86										Amber 21				NA64 mu 19			

# Beam Commissioning

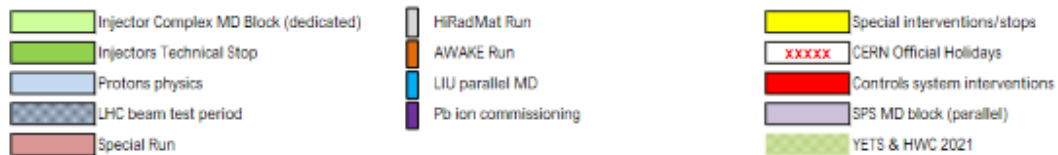
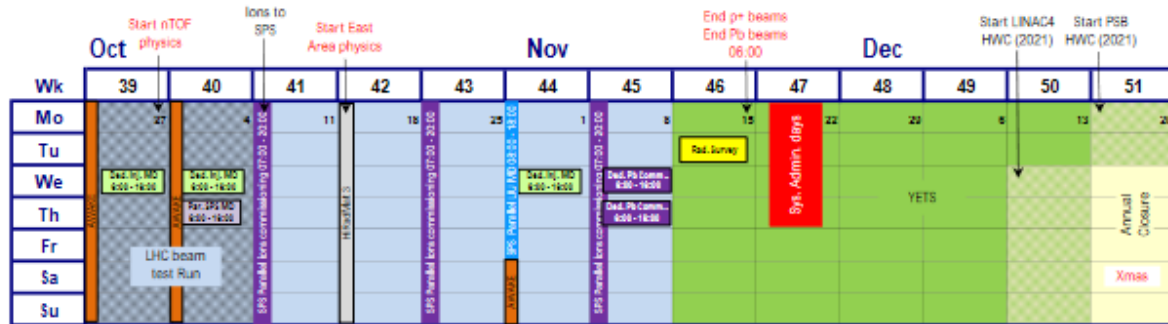
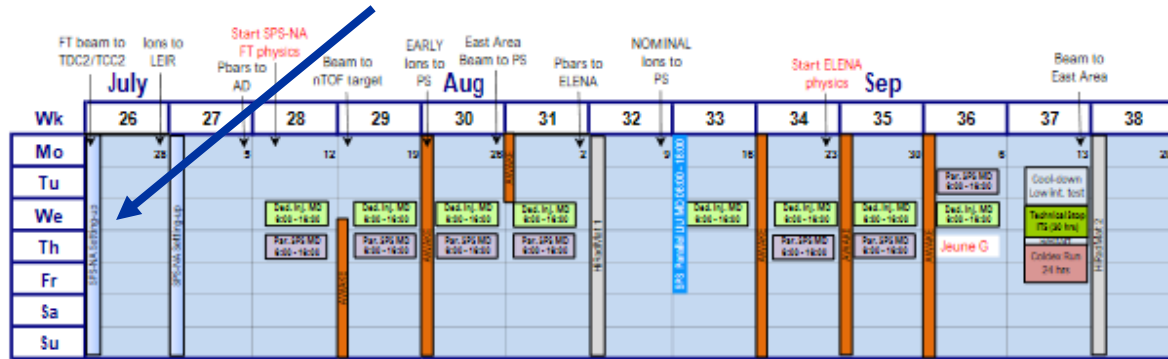


First week of commissioning

- Beam already in SPS and being set-up as we speak (by the way: watch the live event today 16:00 on twitter, linkedin, facebook, ...).
- Priority for fixed target beams and commissioning with plenty of new ideas for reducing 50 Hz components. Will also be tested in upcoming MDs.
- After first scrubbing runs, we plan to have the beam about three weeks before the physics start.
  - First, setting-up of slow extraction in TT20 towards production targets (i.e. T6 for COMPASS) for about one week.
  - During nights, continue with scrubbing run.
  - In this period, all user zones are freely accessible.

# Beam Commissioning

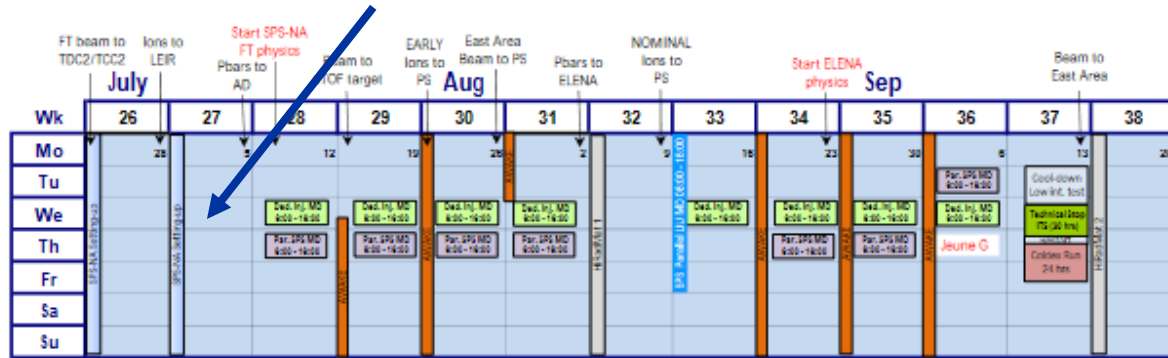
## Second week of commissioning



- Second week continues with scrubbing runs at nights (access possible) and setting up of secondary beams during day time, typically 09:00 – 18:00.
- As also other beams have to be set-up, we are flexible in the planning. We expect spending about four hours per day on M2, mostly for
  - Setting-up standard muon beam.
  - Halo checks and checking scrapers (new motors and controls).
  - Setting-up test beam files for NA64 $\mu$ .
  - Setting up electron beam for calorimeter commissioning.
- However: Clear priority for beam commissioning. This means zone should be ready for receiving beams (including SM1/SM2) and ready for closing without delay.

# Beam Commissioning

## Third week of commissioning



- The third week of commissioning continues without scrubbing runs. Beam during the nights is possible if you find it useful.
- The program for this week focuses mostly on what could not be done the week before, plus some training on muon beam setting-up for the newcomers.
- Note: The schedule is flexible and so are we. If there are any urgent requests, we are happy to accommodate them.
- Physics data taking will start on July 12<sup>th</sup>, 08:00.
- Please let us know who shall be trained on patrolling the zone.



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