

LHC			
Machine Coordinator last week		E. Bravin	
Machine Coordinator this week		J. Wenninger	
Statistics			
Availability	71%	Stable Beam Ratio	14% (commissioning)
Facility Status			
Summary	<p>The recovery from the aftermaths of the loss of electricity in Pt. 4 lasted until the late afternoon of Tuesday. The RF direct cooldown, after the replacement of the rupture disks, worked well and no negative effect has been noticed, neither on RF nor on cryogenics.</p> <p>When the machine was restarted the orbit at injection had to be readjusted due to the movement of the triplet in L5 caused by temperature excursion.</p> <p>Several cycles with nominals and pilot bunches were made during the week to optimize the orbit in the ramp and adjust coupling, tune and chroma all along the cycle. We also had many shifts of the OMC team for optics corrections of the nominal and VdM cycles and for studies at injection.</p> <p>On Wednesday morning the collimation system was setup at injection, including TCTs for collisions at 900GeV. This included the first collisions of the year. All the required loss maps have been carried out and validated as well as a global aperture measurement. The aperture measurement is perfectly in line with expectations: above 12 sigma everywhere and bottlenecks in IR6.</p> <p>The setup of the Van der Meer cycle is also well advanced with several cycles with pilots during the week, ready now to start operating with nominals.</p> <p>On Thursday we had the first stable beam of the year with 3b at 450GeV. A shift of one bucket of B1 was needed to centre the collisions in the experiments. SB at injection was completed with fills on Friday and Sunday with 12b.</p> <p>The ABT team has started the setup of the injection and injection protection, the work will continue next week.</p> <p>The RF cavities have been phased, only one cavity could not be completed and remains to be done.</p> <p>On Sunday evening the new ion cycle was tested for the first time, at the 3rd ramp the beam made it to the end.</p>		
Issues	<p>Several stops due to injector problems, one of the most recurring issues is related to the SPS MKP.</p> <p>Problem with vacuum valve in TT60, we probably sent beam to LHC with the valve closed, no warning or interlock triggered, only noticed unusually large emittance of injected B1 during Friday night.</p>		
Plans	Continue beam commissioning. Set up collimation at FT, setup injection protection, nominal cycle with nominals, finalize VdM cycle.		
Intervention Request			
Yes / No	Duration		Preferred date/time