

PS							
Machine Coordinator last week		Benoit Salvant					
Machine Coordinator this week		Bettina Mikulec					
Beam Scheduled							
East Area	Yes	nTOF	Yes	AD	No	SPS	Yes
Beam Availability by Destination (AFT)							
EA T8	%	EA T9	%	EA T10	%	EA T11	%
nTOF	%	AD	%	SPS	%		
Facility Status							
Summary	<p>Good continuation of the beam commissioning in the PS, with first fast extraction to EAST, first beam to T8 target and first beam and steering to n-TOF target, while providing LHC25 beams to SPS. Availability is 92% until now.</p> <p>Beam status</p> <ul style="list-style-type: none"> • LHC type beams: <ul style="list-style-type: none"> ○ Delivered regularly batches of 72b to the SPS (with up to 2.3e11 ppb). ○ The 8b4e beam was prepared (56b) but it trips cavity 81. ○ The beam intensity on the LHC nominal cycle was pushed beyond 2.6e11 ppb (72b). ○ The 2 basic period cycle (12b-48b) was prepared in view of possible use for LHC filling. • SFTPRO <ul style="list-style-type: none"> ○ MTE beam delivered to the SPS to 1500e10 ppb and barrier bucket, fine tuning ongoing both in transverse and longitudinal planes (no change since last week). • EAST <ul style="list-style-type: none"> ○ Beam delivered in acceptable condition to the T8, T9 and N targets (fast and slow extractions). Losses in septum 23 are still too high and additional work is needed on that side. • TOF <ul style="list-style-type: none"> ○ Beam prepared at several intensities for aperture scans this weekend. • AD to be continued next week. <p>Other activities</p> <ul style="list-style-type: none"> • Constant finetuning on LHC, EAST, TOF beams this week. • Losses at transition crossing with low intensity TOF beams were solved by RF experts. • Work on low tune single turn EAST extraction is ongoing. • Emittance measurements on LHC beams were performed. • The patrols for EA2 and n-TOF target were done and beam permits were signed in time to start FTN steering and aperture check on Saturday and Sunday. 						
	Issues	<ul style="list-style-type: none"> • A leak in the cooling system of POPS was repaired on Monday (2 beam stops of 40 min to put POPS in degraded mode in order to intervene on Monday and Tuesday). • A leak was observed on the RF cavity demineralized water circuit by EN-CV. An access was organized in the PS ring and switchyard in the shadow 					

	<p>of an access in SPS and LHC on Wednesday morning for an inspection by EN-CV (3h without beam from PS and PSB). A small leak was identified and a pressure limiter was readjusted by the RF specialist.</p> <ul style="list-style-type: none"> • Magnets BHZ377 and BHZ378 tripped many times on a SLAVE fault this week and more and more frequently, which started to perturb operation significantly. SY-EPC experts investigated and recommended exchanging 3 network switches. The intervention was done on Thursday afternoon and solved the issue. • A broken cathode power supply was replaced on KFA45 on Monday, and there were less KFA45 faults afterwards. • On the EAST_T8 beam, the signal was good on BPM1, but very low on the 3 following BPMs. It took significant time and effort by the operation team to realize that BCT T08.BCTF072 was not fully out with a position at 0 mm. • There were several 10 MHz cavity trips throughout the week, which were followed up by the RF piquets and experts. • The main recurrent faults that remain to be solved are with KFA71 module trips as well as with cavity 81 that trips after a couple of hours when the 8b4e beam is played in the supercycle. 		
Plans			
Intervention Request			
No	Duration		Preferred date/time
Reason			
Impact			