

PS							
Machine Coordinator last week		Alexander Lasheen					
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Beam Scheduled							
East Area	No	nTOF	No	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, despite two half days of beam stop for accesses and TOF/AD DSO tests. The beam was prepared and delivered to the SPS in view of the scrubbing run next week. AFT is 96.8% as it stands.</p> <ul style="list-style-type: none"> The KFA71-79 modules were synchronized, module 10 seems still delayed by 500ns and will be checked and is taken out of operational beam meanwhile. Turn by turn measurements with SEM grids performed on Thursday morning in shadow of the TOF/AD DSO tests. Impact of improved matching on emittance is being checked. Setting up of RF hardware required for high intensity LHC beams ongoing (coupled bunch feedback, multi harmonic feedback). Work ongoing on the PS BGI. LHC type beams: <ul style="list-style-type: none"> Delivered up to 4x72b to the SPS (1.4e11 ppb). The 8b4e beam was prepared (56b) and will require further polishing. The beam intensity on the LHC nominal cycle was pushed to 2.3e11 ppb (72b) and to 2.5e11 on BCMS (48b). The 2 basic period cycle (12b-48b) is being prepared (beam presently extracted on spec, further checks needed) The LHCPROBE was set up. 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. EAST <ul style="list-style-type: none"> Beam delivered in acceptable condition to the T9 and N targets. Fine adjustments will be continued. AD and TOF to be continued in the next weeks (TOF already close to spec, fine tuning required). 						
Issues	<ul style="list-style-type: none"> 200MHz cavities not working on Monday afternoon, traced down to a broken NIM power supply blocking the distribution of the 10MHz clock (exchanged) High frequency cavities C80-89 and C40-77 power amplifier repair and thorough investigations (beam still delivered to the SPS in old nominal bunch rotation scheme). <ul style="list-style-type: none"> Detailed outline: The C80-89 cavity amplifier was repaired during the beam stop on Tuesday morning in shadow of the SPS. The C40-77 also required an exchange of the amplifier following the issues from W11 (burnt power converter and amplifier issue). After replacement of the C40-77 amplifier, signal returns from the power converter to the PLC were still found unsatisfactory (risk of interlock not triggering). Thorough investigations on the power converter and PLC were conducted from Tuesday to Thursday afternoon as it was suspected to be the cause of the issues from W11. Another intervention in the ring on Thursday afternoon was needed where a broken HV cable was identified. The HV cable was repaired by the 						

	RF expert fixing all the issues. The beam could be delivered to the SPS meanwhile with 1x40 MHz cavity. No further issue is expected. <ul style="list-style-type: none"> • BHZ377-378 had several trips on Friday and was fixed by the expert. 		
Plans	-		
Intervention Request			
No	Duration	-	Preferred date/time -
Reason	-		
Impact	-		