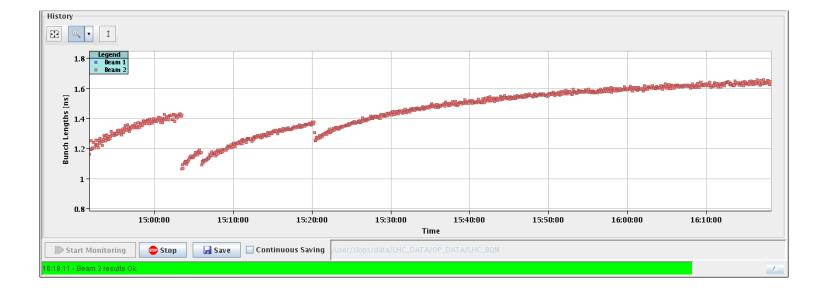
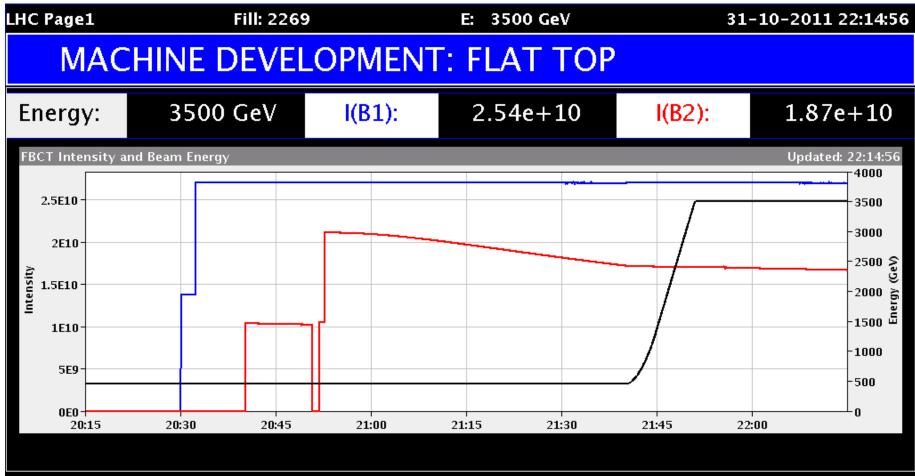
p-Pb feasibility test, Part 1, 31/10/2011

- Several hours setup (timing, many details...)
- Stored 4 Pb bunches (first of year) in presence of 304 p bunches at injection
 - Lifetime no worse for p bunches
 - Emittance blow-up, does not appear to be worse than for Pb alone - Reine
- Dumped and re-injected 4 fresh Pb
 - Still OK
- Ramped 2 Pb and 2 p bunches, good lifetime
- Re-phased RF (cogging) to move bunch 1 encounter point 9 km back to ALICE, no losses
 - Confirmation with video from ALICE
 - Presentation by Philippe

Bunch-lengthening from IBS



LHC Page1	Fill: 2269		E: 450 GeV			1-10-2011 16:38:25				
MACHINE DEVELOPMENT: INJECTION PROBE BEAM										
BCT TI2: 0.00e+00	D I(B1): 1.30e+	-10	ВС	T TI8: 0.00e+	-00 I(B2)	3.78e+10				
TED TI2 position:	BEAM	TDI P2 g	aps/mm	up: 10.84	do	wn: 8.57				
TED TI8 position:	BEAM	TDI P8 g	aps/mm	up: 9.62	do	wn: 8.92				
FBCT Intensity and Beam Ei	nergy	15:30	15:45	16:00 1		Updated: 16:38:25 4000 - 3500 - 2500 - 2500 - 2000 - 2000 - 1500 - 1000 - 500 - 6:30				
Comments 31–10–2011 15:39:35 : 2011 Proton physics program finished! lons circulating in B2 Injection protons in B1			BIS status and SMP flags Link Status of Beam Permits Global Beam Permit Setup Beam Beam Presence Moveable Devices Allowed In Stable Beams			B1B2falsefalsetruetruetruetruetruetruefalsefalsefalsefalse				
AFS: 100ns_588b_1sma		oPb	PM Status B	1 ENABLED	PM Status B2	ENABLED				



Comments 31-10-2011 21:55:27 :	BIS status and SMP flags			B1	B2
2011 Proton physics program finished!	Link Status of Beam Permits			false	false
Proton and lead ion beams together for	Global Beam Permit			true	true
the first time at 3.5 Z TeV.	Setup Beam			true	true
	Beam Presence			true	true
2 bunches each, will try rephasing RF.	Moveable Devices Allowed In		ved In 🔡	false	false
	S	table Beams		false	false
AFS: pPb_2b_1_1_1bpi2inj	PM Status B1	ENABLED	PM Status B2	E١	NABLED

p-Pb feasibility test, Part 2

MD part: ramp some Pb bunches in presence of many proton bunches

- New date proposed: daytime 16 Nov

- Physics part: collide a few (under discussion) Pb with a few p bunches as "Stable Beams"
 - Finalise details tomorrow
 - n Meeting CCC Glass Box 11:00
 - Could follow MD part, or be in daytime 17 Nov
 - n (after Pb-Pb physics overnight)

First p and Pb at 3.5 Z TeV



Contributors *not* in photo: J. Wenninger, S. Redaelli, M. Sapinski, M. Lamont, M. Schaumann, OP crews, several others ...