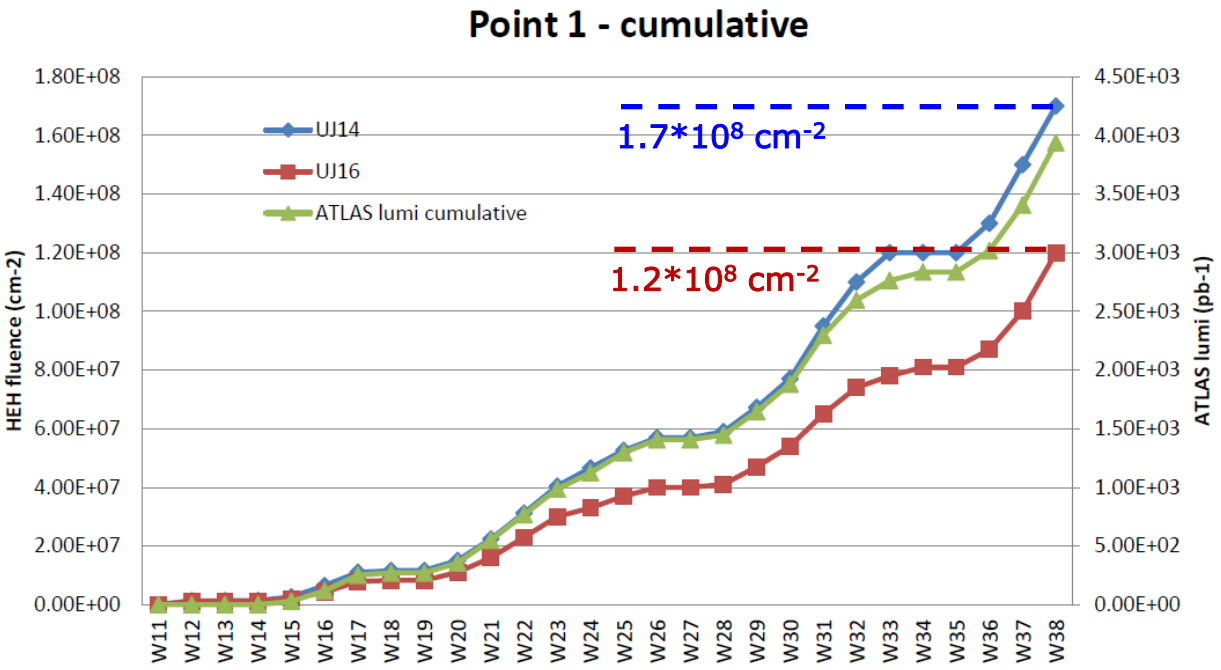
Weekly Report

Evolution of radiation levels during 2011 and weekly report values

... On behalf of the MCWG (Marco Calviani team)

Evolution of radiation levels during 2011

Luminosity is the main source of radiation for P1/5/8 + vacuum

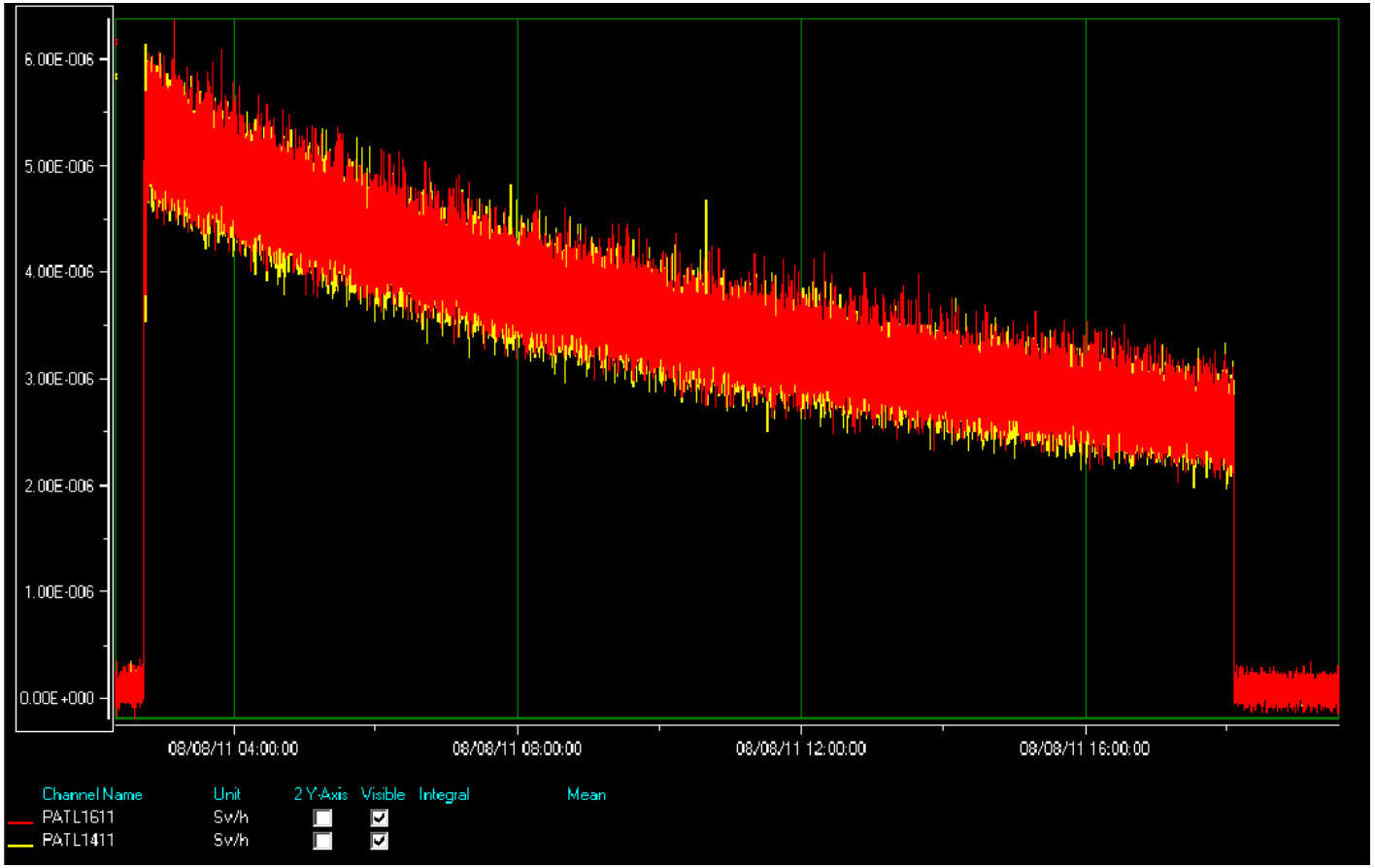


ATLAS

→ Difference between UJ14/16 due to spread of the RadMON

UJs	shielded areas	
	HEH (cm-2/w38)	HEH (cm-2/2011)
14 (13, tun)	<1.0E+6	1.7E+08
16 (17, tun)	<1.0E+6	1.2E+08
22	N/A	N/A
23	<1.0E+6	1.0E+06
27	<1.0E+6	<1.0E+6
32	N/A	N/A
33	N/A	N/A
56	2.8E+06	2.7E+07
76	<1.0E+6	4.3E+06
87	<1.0E+6	2.1E+06
88	N/A	N/A

Evolution of radiation levels during 2011

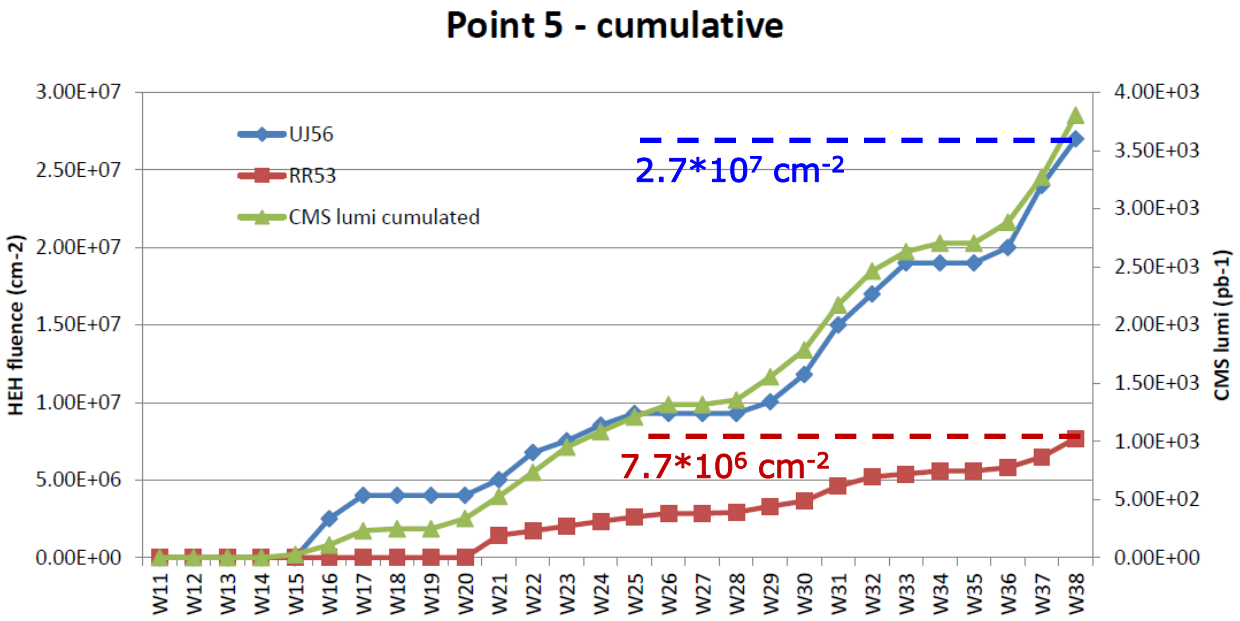


→ No Difference between PAT detector in UJ16/14

Evolution of radiation levels during 2011

CMS

Luminosity is the main source of radiation for P1/5/8 + vacuum

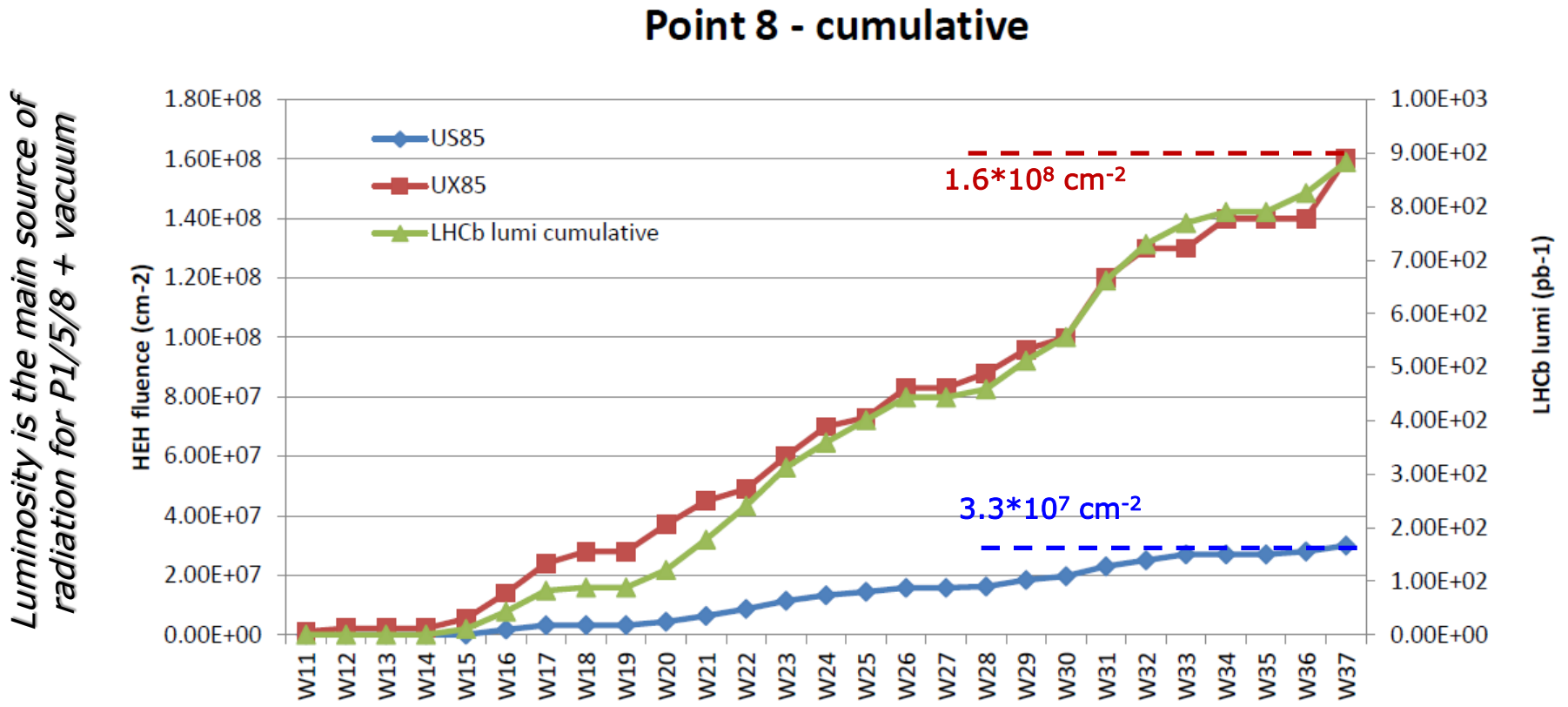


RRs	shielded areas	
	HEH (cm-2/w38)	HEH (cm-2/2011)
13	<1.0E+6	4.9E+06
17	<1.0E+6	5.6E+06
53	1.2E+06	7.7E+06
57	1.2E+06	7.2E+06
73	<1.0E+6	5.8E+06
77	<1.0E+6	8.9E+06

UJs	shielded areas	
	HEH (cm-2/w38)	HEH (cm-2/2011)
14 (13, tun)	<1.0E+6	1.7E+08
16 (17, tun)	<1.0E+6	1.2E+08
22	N/A	N/A
23	<1.0E+6	1.0E+06
27	<1.0E+6	<1.0E+6
32	N/A	N/A
33	N/A	N/A
56	2.8E+06	2.7E+07
76	<1.0E+6	4.3E+06
87	<1.0E+6	2.1E+06
88	N/A	N/A

Evolution of radiation levels during 2011

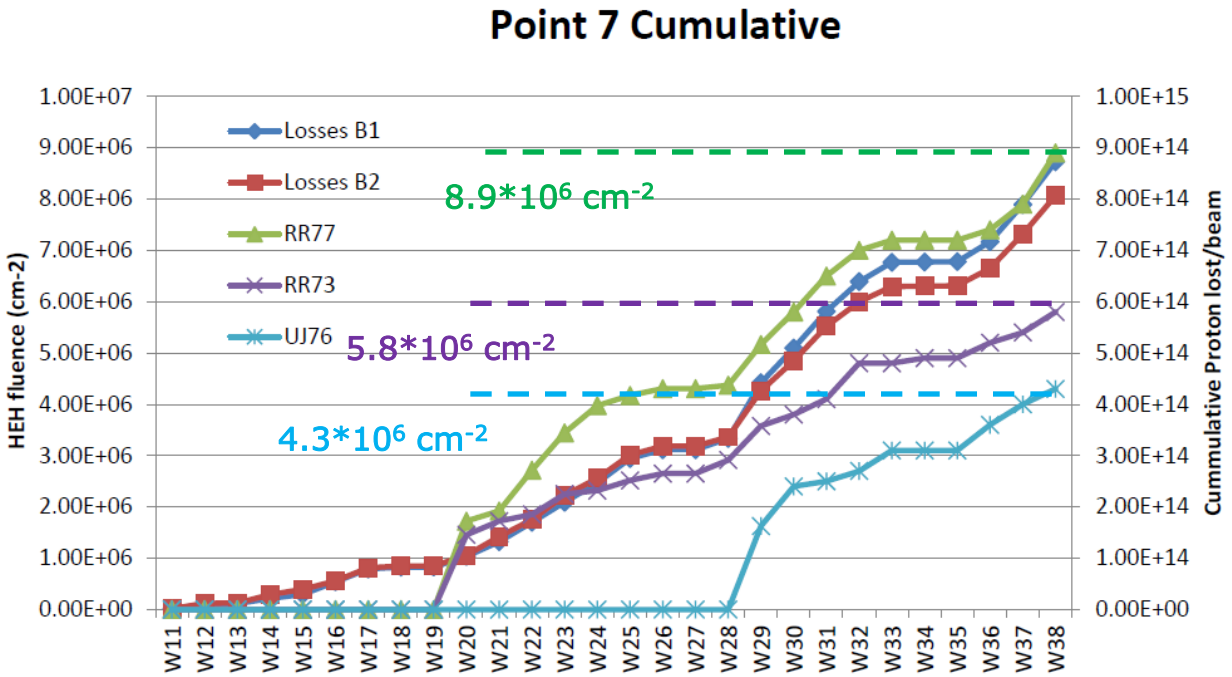
LHCb



US85/UX85	cavern US85		cavern UX85	
	HEH (cm-2/w38)	HEH (cm-2/2011)	HEH (cm-2/w38)	HEH (cm-2/2011)
	2.7E+06	3.3E+07	6.5E+06	1.6E+08

Evolution of radiation levels during 2011

Beam lost in collimation is the main source of radiation for P7/3



P7

RRs	*shielded areas*	
	HEH (cm-2/w38)	HEH (cm-2/2011)
13	<1.0E+6	4.9E+06
17	<1.0E+6	5.6E+06
53	1.2E+06	7.7E+06
57	1.2E+06	7.2E+06
73	<1.0E+6	5.8E+06
77	<1.0E+6	8.9E+06

UJs	*shielded areas*	
	HEH (cm-2/w38)	HEH (cm-2/2011)
14 (13, tun)	<1.0E+6	1.7E+08
16 (17, tun)	<1.0E+6	1.2E+08
22	N/A	N/A
23	<1.0E+6	1.0E+06
27	<1.0E+6	<1.0E+6
32	N/A	N/A
33	N/A	N/A
56	2.8E+06	2.7E+07
76	<1.0E+6	4.3E+06
87	<1.0E+6	2.1E+06
88	N/A	N/A