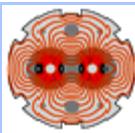


# Weekly Report

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Evolution of radiation levels during 2011 and weekly report values

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

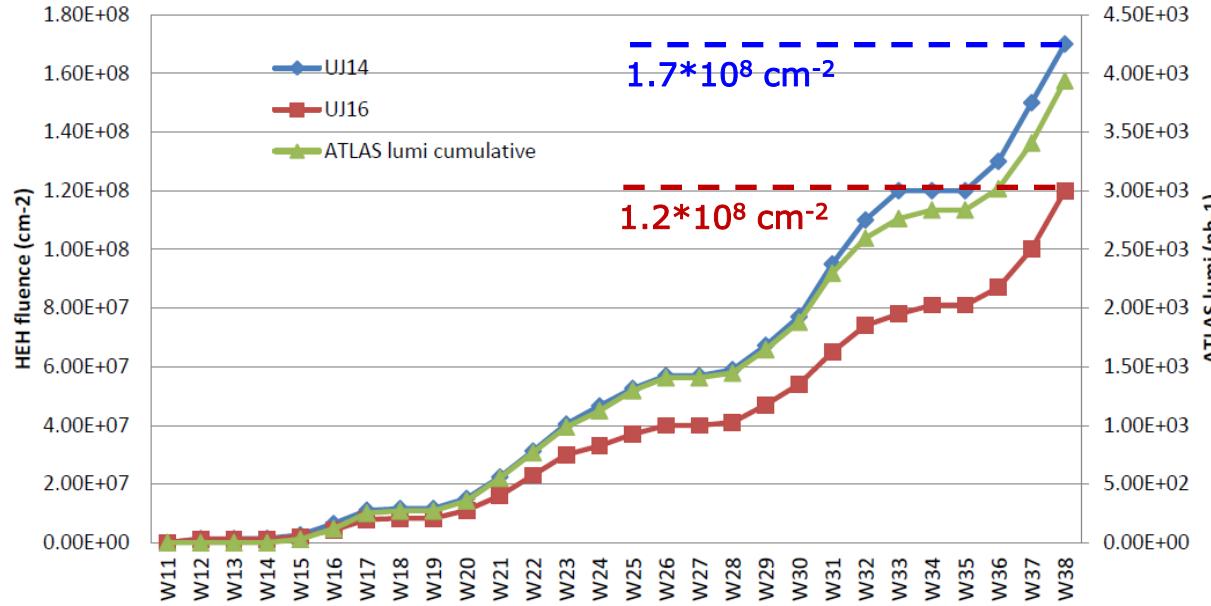


# Evolution of radiation levels during 2011

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

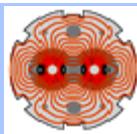
Point 1 - cumulative

ATLAS

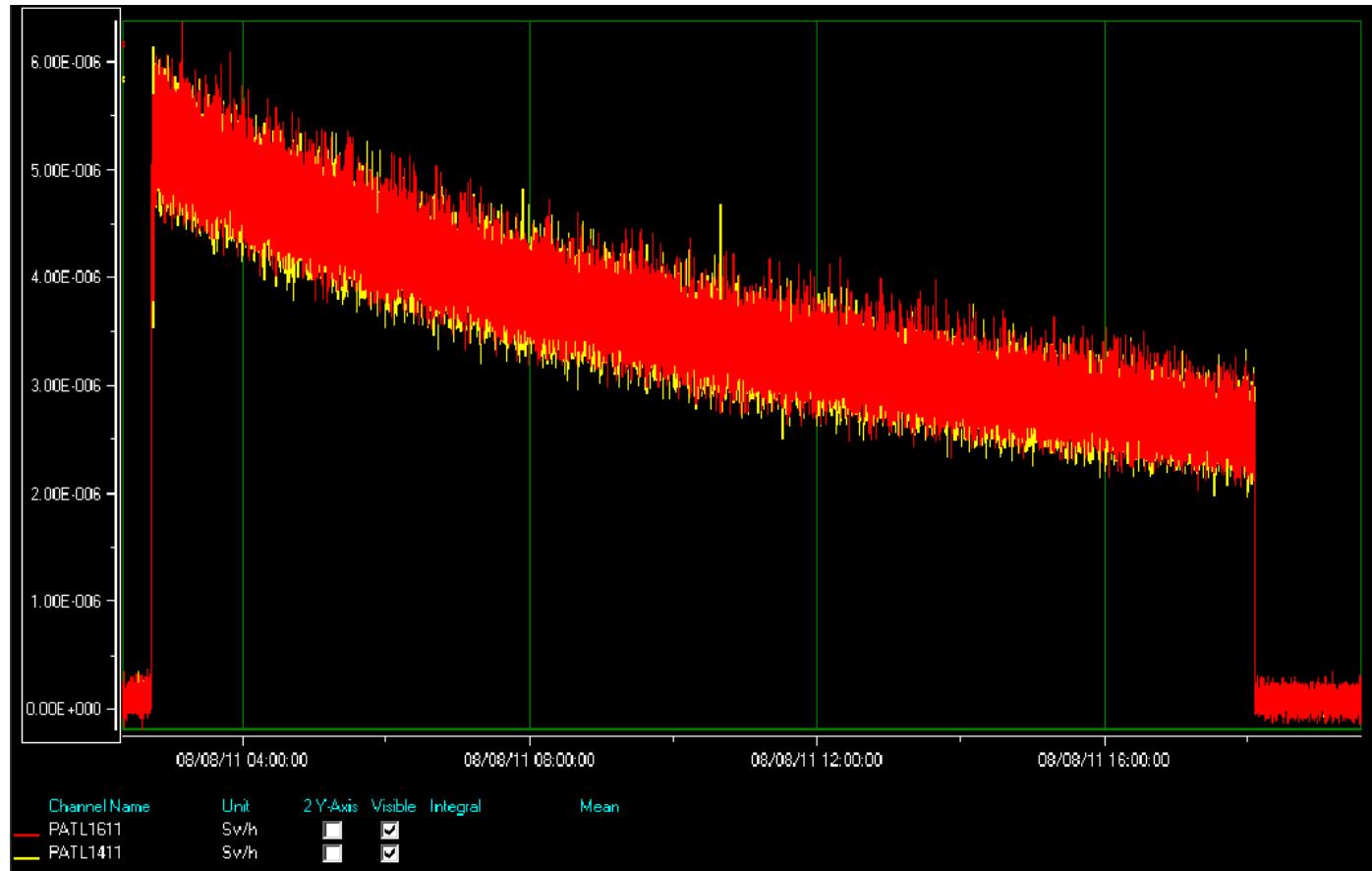


→ Difference between UJ14/16 due to spread of the RadMON

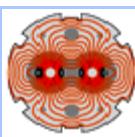
UJs	shielded areas	
	HEH (cm⁻²/w38)	HEH (cm⁻²/2011)
14 (13, tun)	<1.0E+6	1.7E+08
16 (17, tun)	<1.0E+6	1.2E+08
22	N/A	N/A
23	<1.0E+6	1.0E+06
27	<1.0E+6	<1.0E+6
32	N/A	N/A
33	N/A	N/A
56	2.8E+06	2.7E+07
76	<1.0E+6	4.3E+06
87	<1.0E+6	2.1E+06
88	N/A	N/A



# Evolution of radiation levels during 2011



→ No Difference between PAT detector in UJ16/14

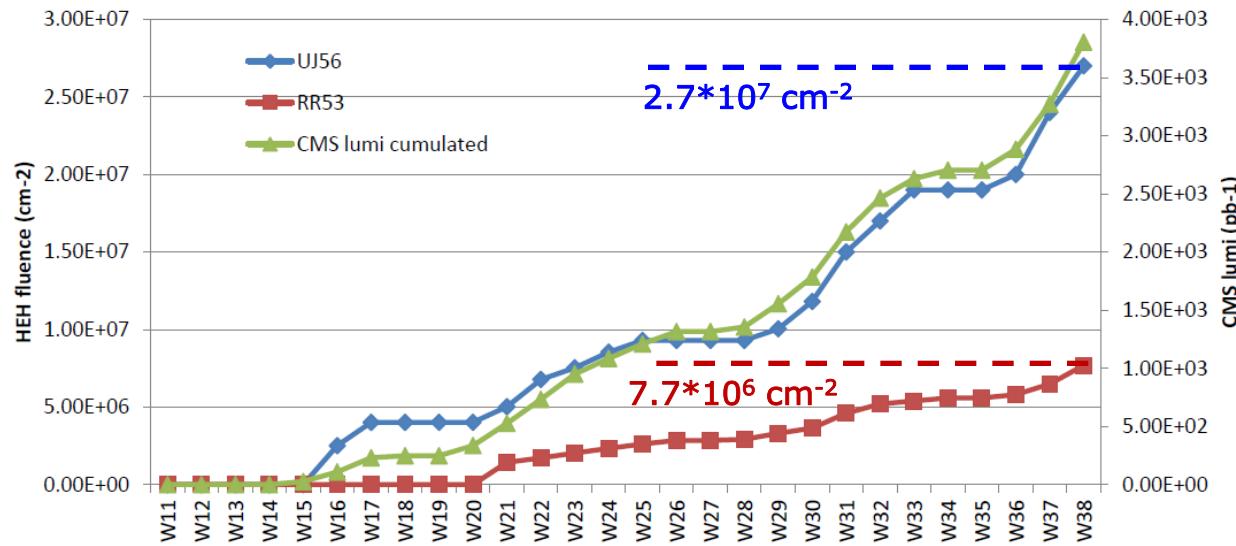


# Evolution of radiation levels during 2011

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

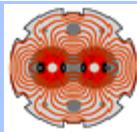
Point 5 - cumulative

CMS



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

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

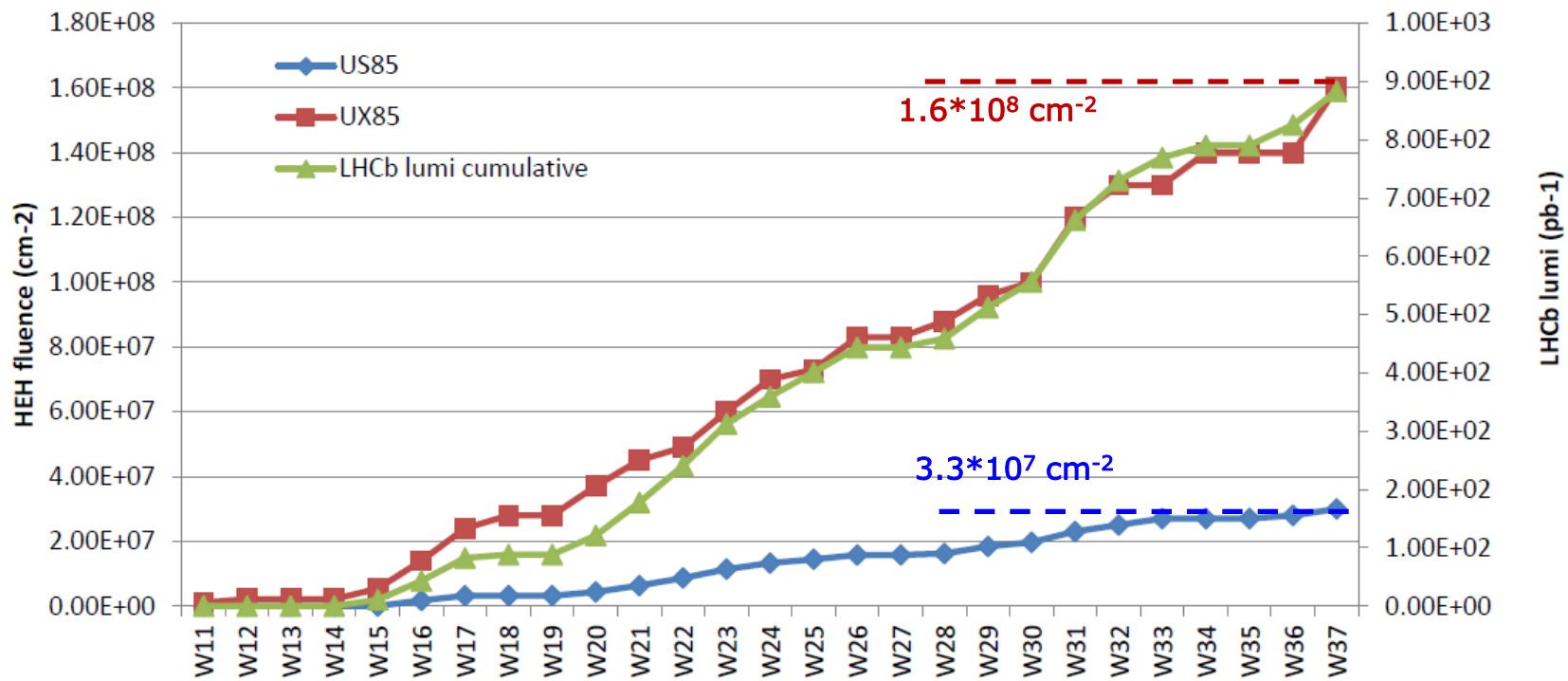


# Evolution of radiation levels during 2011

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

LHCb

## Point 8 - cumulative



US85/UX85

cavern US85

HEH (cm<sup>-2</sup>/w38)

HEH (cm<sup>-2</sup>/2011)

2.7E+06

UX85

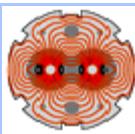
cavern UX85

HEH (cm<sup>-2</sup>/2011)

1.6E+08



J. MEKKI



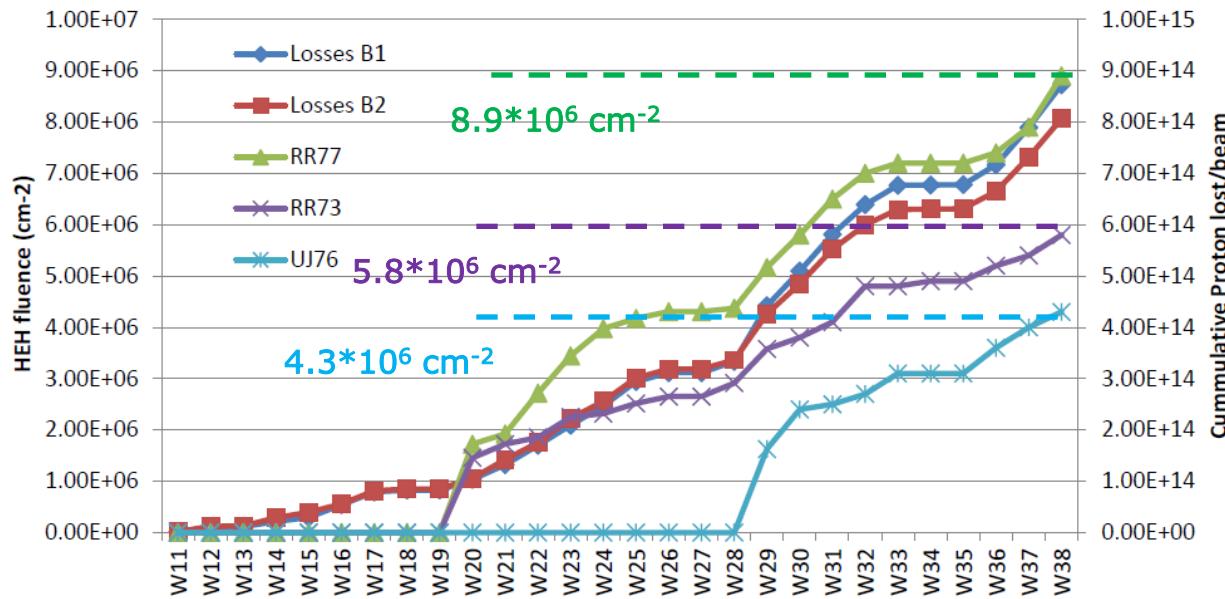
25/08/11 – RadWG meeting

(5/6)

# Evolution of radiation levels during 2011

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

Point 7 Cumulative



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

