

CNES/ESA Radiation Effects Final Presentation Days 2017

UCL Irradiation Test Facility Status Report

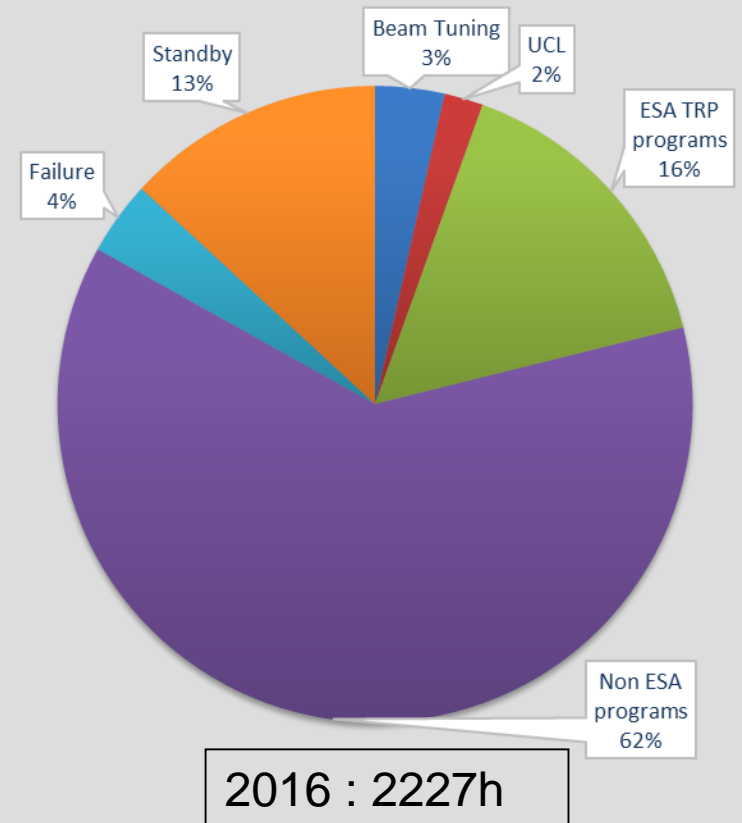
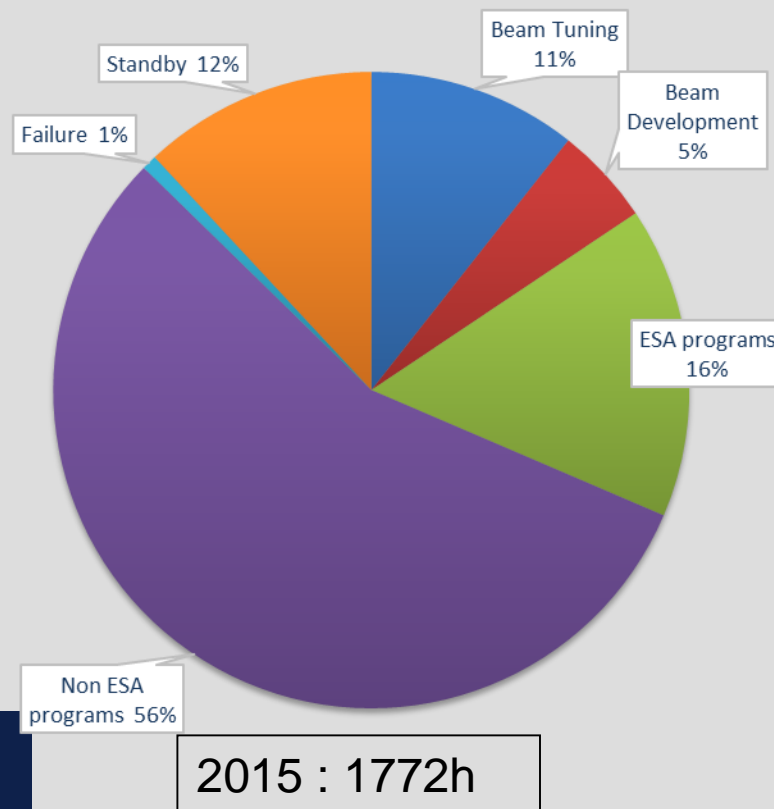
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- 2015-2016 component test beam time



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- **HIF achieved developments**

- Removal of the the gold diffusion foil

New power supply for the sweeping magnet

- New beam shutter
- New Heavy ions cocktail

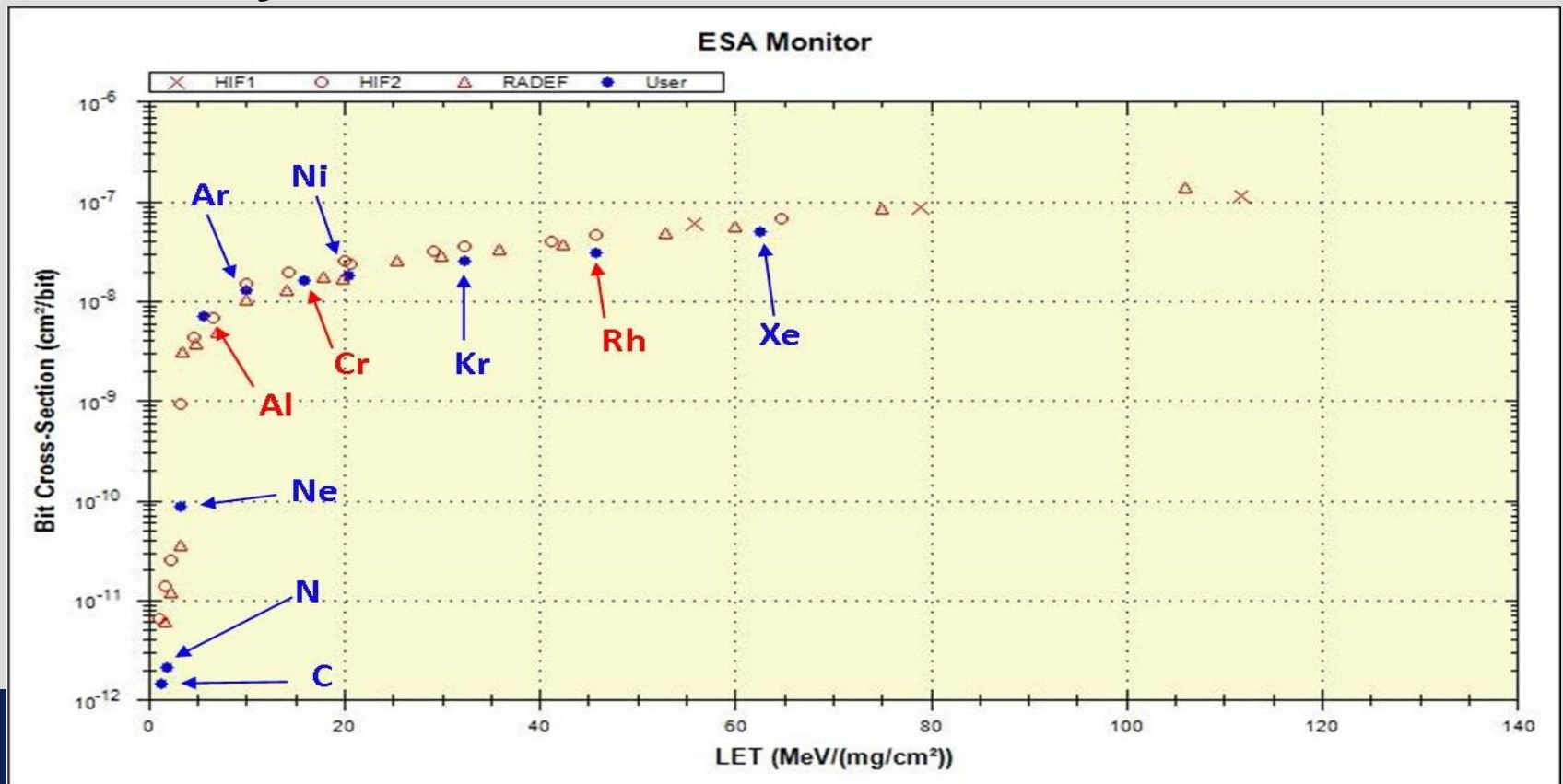
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- New Heavy ions cocktail**

Ion	M/Q	Energy on device	Range on device	LET on device
		[MeV]	[μm]	[MeV/(mg/cm ²)]
¹³ C ⁴⁺	3,25	131	269,3	1,3
²² Ne ⁷⁺	3,14	238	202	3,3
²⁷ Al ⁸⁺	3,37	250	131,2	5,7
⁴⁰ Ar ¹²⁺	3,33	379	120,5	10,0
⁵³ Cr ¹⁶⁺	3,31	513	107,6	16,0
⁵⁸ Ni ¹⁸⁺	3,22	582	100,5	20,4
⁸⁴ Kr ²⁵⁺	3,35	769	94,2	32,4
¹⁰³ Rh ³¹⁺	3,32	972	88,7	45,8
¹²⁴ Xe ³⁵⁺	3,54	995	73,1	62,5

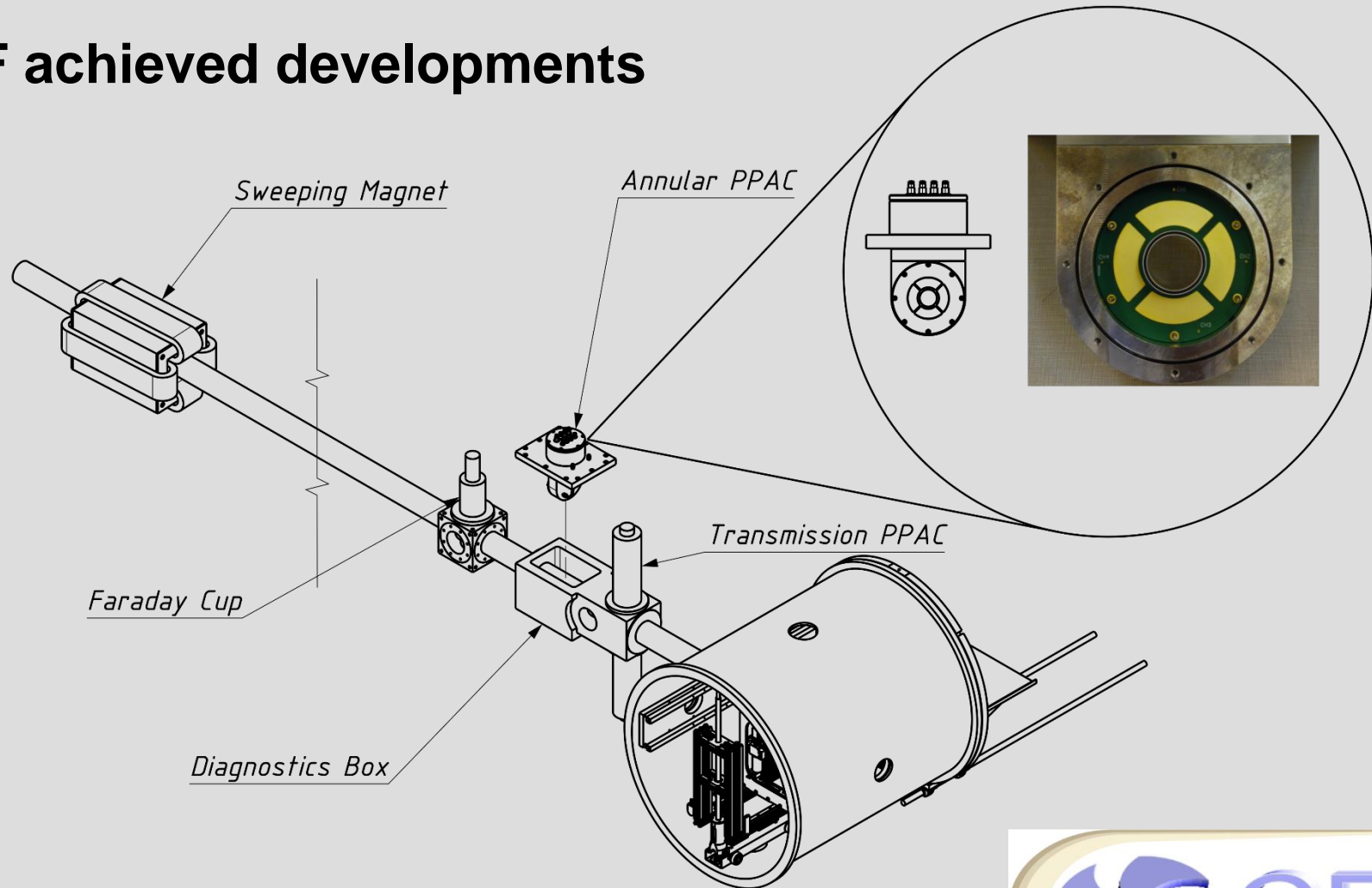
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- **New Heavy ions cocktail**



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- **HIF achieved developments**



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- HIF achieved developments



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- Under development
 - New accelerated element with higher LET (Ta or Au)
 - Increase the beams energy in a new cocktail

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Thank you and see you soon