

## Radiation filed estimations for CNRAD slot 1

Beam from 20/4/2010 at 12:40 until Friday 23/4 10:20

$$\Delta I = 7.534 \cdot 10^{16} \text{ pot}$$

Area	dVt [mV]	Dose [mGy]	SEUs 3V	SEUs 5V	$\Phi_{th}$ [cm <sup>-2</sup> ]	$\Phi_{HE}$ [cm <sup>-2</sup> ]
TSG46 BOX	~< 5	< 16		38	6e8**	1.2e7**
TSG46 remote	~ 9	29				
TSG45 BOX	~ 10	32	2578		9e8	7e7
TSG45 remote	~ 6	2500*	-	-		

\*expected from calibration – 2.14Gy at stable conditions

\*\*fluences calculated assuming thermal ratio=50 -> just a guess! Simulations to be done + 5/3V to be finished

## Radiation filed estimations for CNRAD slot 2 - START

Beam from 29/4/2010 at 17:58 until Monday 3/5 9:00 (unfinished)

$$\Delta I = 9.39 \cdot 10^{17} \text{ pot}$$

Area	dVt [mV]	Dose [mGy]	SEUs 3V	SEUs 5V	$\Phi_{th}$ [cm <sup>-2</sup> ]	$\Phi_{HE}$ [cm <sup>-2</sup> ]
TSG46 BOX	35	115		438	6.7e9**	1.4e8**
TSG46 remote	100	330				
TSG45 BOX	217	720		1392	1.1e10	7.9e8
TSG45 remote	63	26000	-	-		

\*\*fluences calculated assuming thermal ratio=50 -> just a guess! Simulations to be done + 5/3V to be finished



