PROGRESS REPORT

tkLayout developers meeting

Stefano MARTINA

stefano.martina@cern.ch

European Organization for Nuclear Research



Test

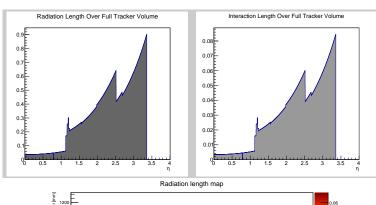
- ✓ Only one service: 100g/m = 0.1g/mm of Cu
- ✓ Radiation length $Cu = 12.86g/cm^2 = 0.1286g/mm^2$
- ✓ Layers 1 (12 rods, r = 40) and 2 (24 rods, r = 75)

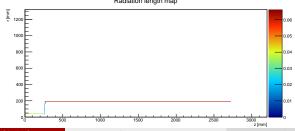
$$\frac{X_{0L1}}{X_{0Cu}} = \frac{0.1 \cdot 12}{2\pi \cdot 40 \cdot 0.1286} = 0.037$$

$$\frac{X_{0L2}}{X_{0CU}} = \frac{0.1 \cdot 24}{2\pi \cdot 75 \cdot 0.1286} = 0.04$$

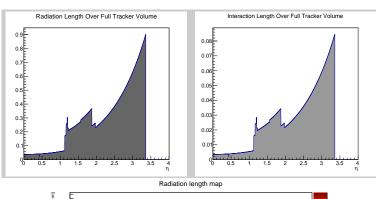
At
$$\eta = 0$$

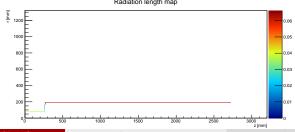
Layer 1





Layer 2





Difference in last section not visible, reason:

minZ	minR	maxZ	maxR	length	num	g							
2632.97	184.368	2722.97	194.368	90	96	864		minR	maxZ	maxR	length	num	g
260.5	174.368		184.268	9.9	96	95.04		184.368	2722.97	194.368	90	96	864
260.5	184.368	2632.87	194.368	2372.37	96	22774.8		174.368	270.5	184.268		96	95.04
255.6	35.837	265.6	73.747	37.91	12	45.492		184.368		194.368		96	22774.8
0.1	35.837	35.4	45.837	35.3		42.36			265.6			24	
35.5	35.837	105.4	45.837	69.9		83.88		73.847	35.4	83.847	35.3	24	84.72
105.5	35.837	175.4	45.837	69.9	12	83.88		73.847	105.4	83.847	69.9	24	167.76
175.5	35.837	245.4	45.837	69.9	12	83.88		73.847	175.4	83.847	69.9	24	167.76
245.5	35.837	250.5	45.837	5	12	6	175.5		245.4	83.847	69.9	24	167.76
255.6	73.847	265.6		40.591	12	48.7092			250.5	83.847	5	24	12
255.6	114.538	265.6	166.268	51.73	24	124.152			265.6	166.268	51.73	24	124.152
255.6	166.368	265.6	174.268	7.9	48	37.92	255.6	166.368	265.6	174.268	7.9	48	37.92

Radiation length map

