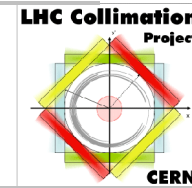

Status of energy deposition studies at IR7



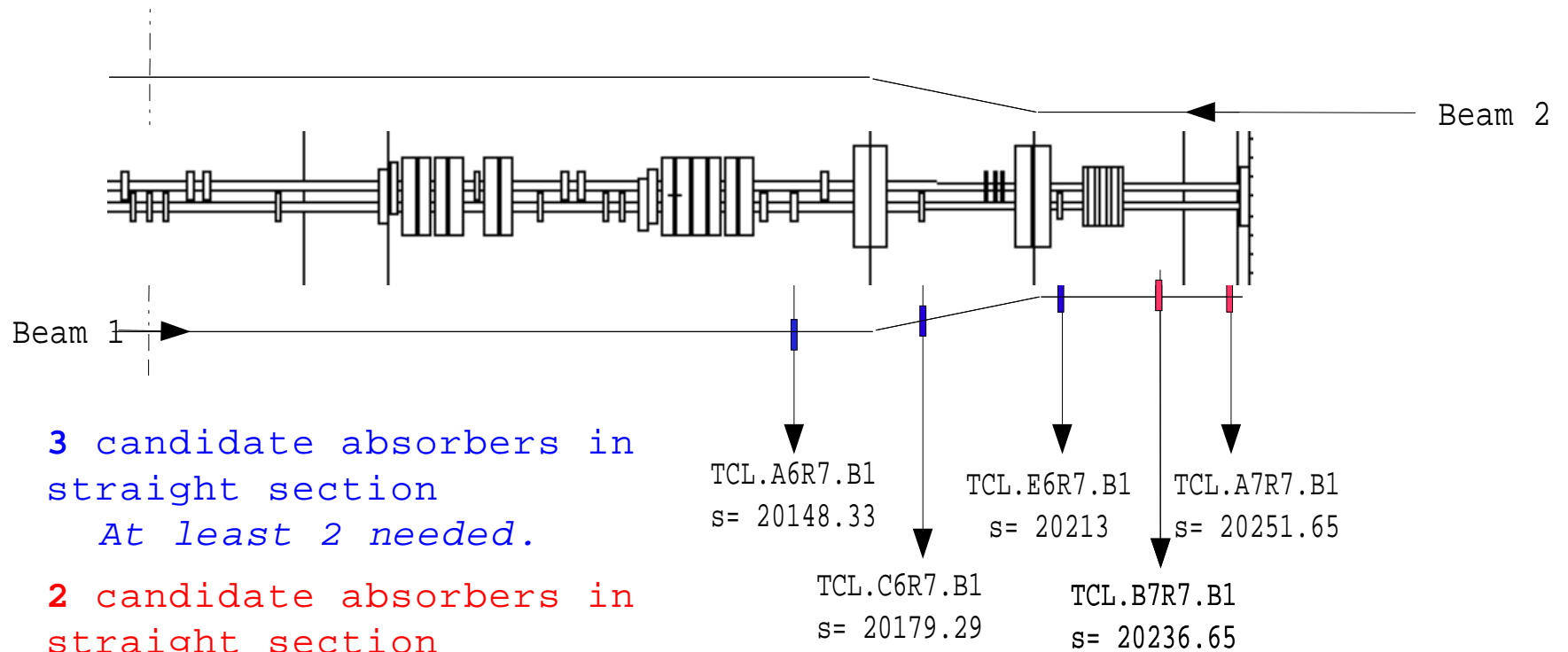
Collimation Meeting
31-01-2005



A. Ferrari, M. Magistris, M. Santana, V. Vlachoudis

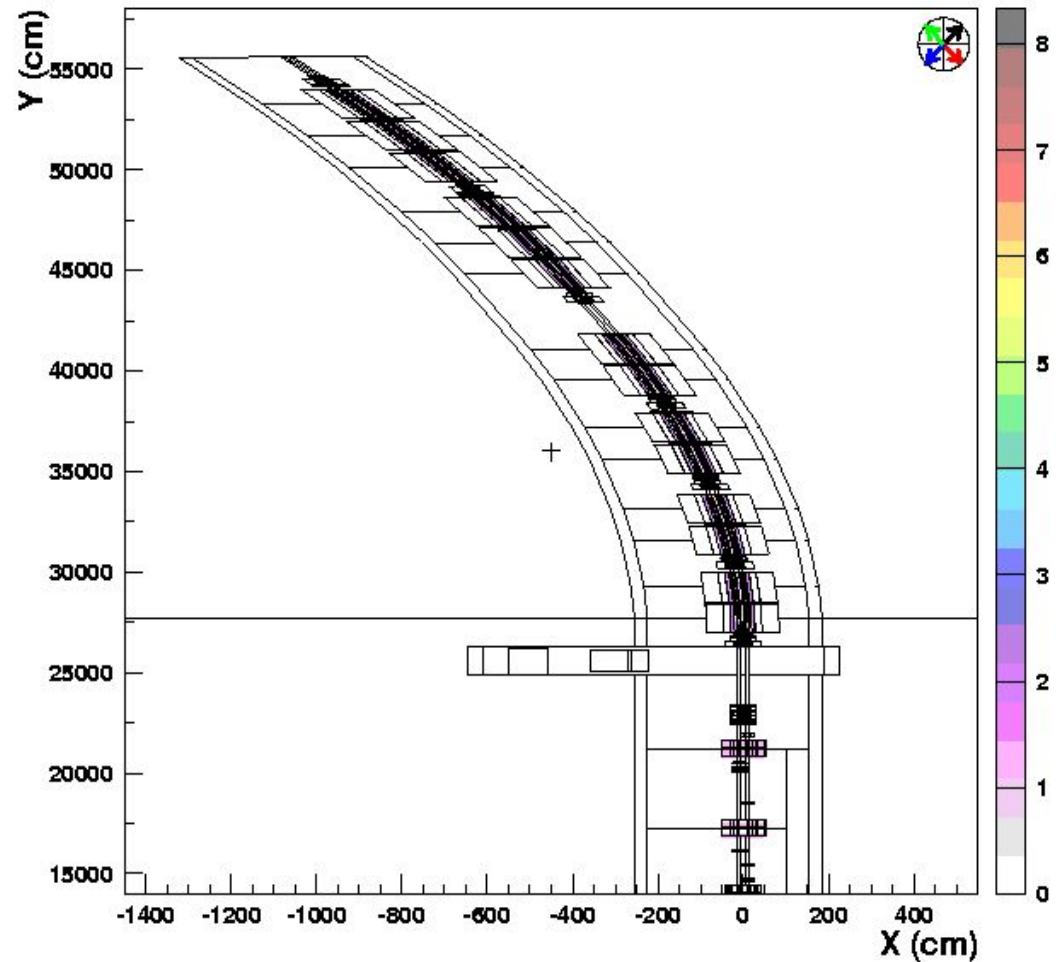
Implementation of vertical and horizontal absorbers.

Studied locations



IR7 curved region.

- Tunnel, pipes, etc have been chopped, rotated and merged.
- Prototypes are allocated with the according rotation.
- The dipole is made of four straight sections, to accommodate the trajectory.



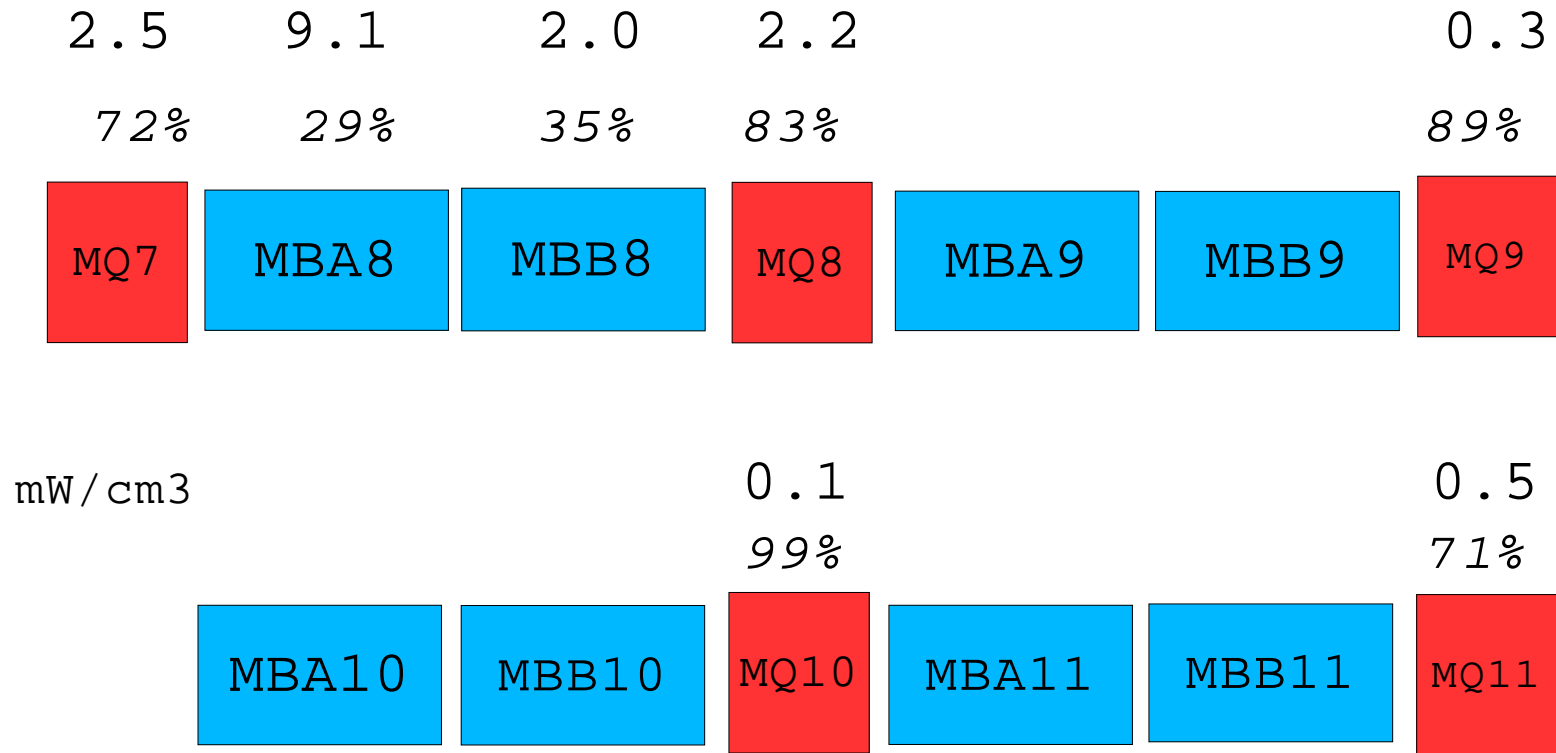
Energy deposition for considered configurations

N_{abs}	% Beam	A6 _v	C6 _h	E6 _v	B7 _v	A7 _h	MQTL	MB	MQ
0	1.5	-	-	-	-	-	330	?	?
2	55	-	1190	208	-	-	1.6	?	?
3	55	2360	413	75	-	-	1.8	9	2.5
3	Y	-	1190	208	-	?	1.6	?	?
4	200	2360	413	75	-	50	1.8	2.5	2
4	Y	-	1190	208	?	?	1.6	?	?
5	200	2360	413	75	9	44	1.8	1.8	2.1

Table 1: Results of energy deposition in sensitive areas of IR7 for different absorbers. Units are W and $\frac{mW}{cm^3}$ for COIL_{den}, MB and MQ.

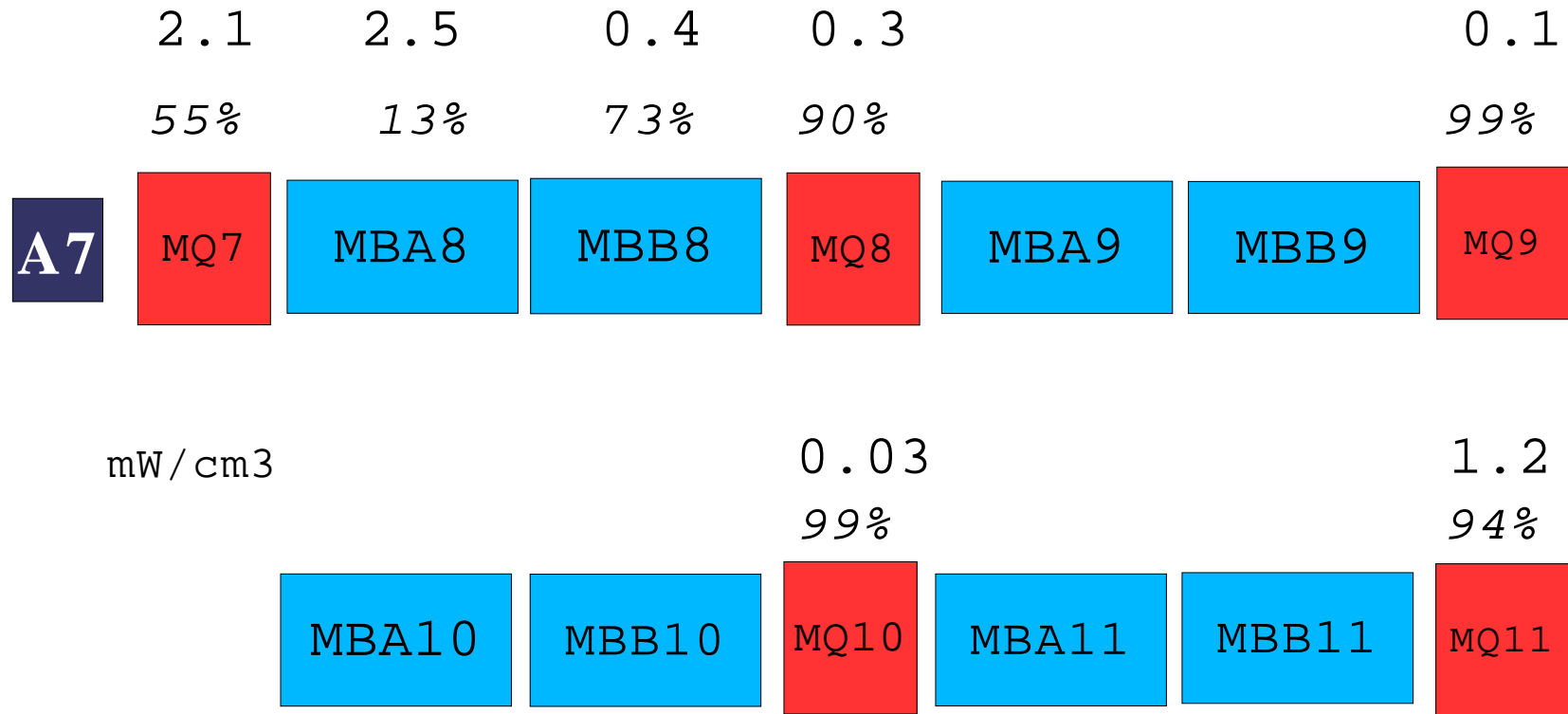
Energy deposition along the curved section.

3 abs. in straight section, **No** abs. for curved section



Energy deposition along the curved section.

3 abs. in straight section, 1 abs. for curved section



Radiation on the MBA8

3 abs. in straight section, 1 abs. for curved section

