

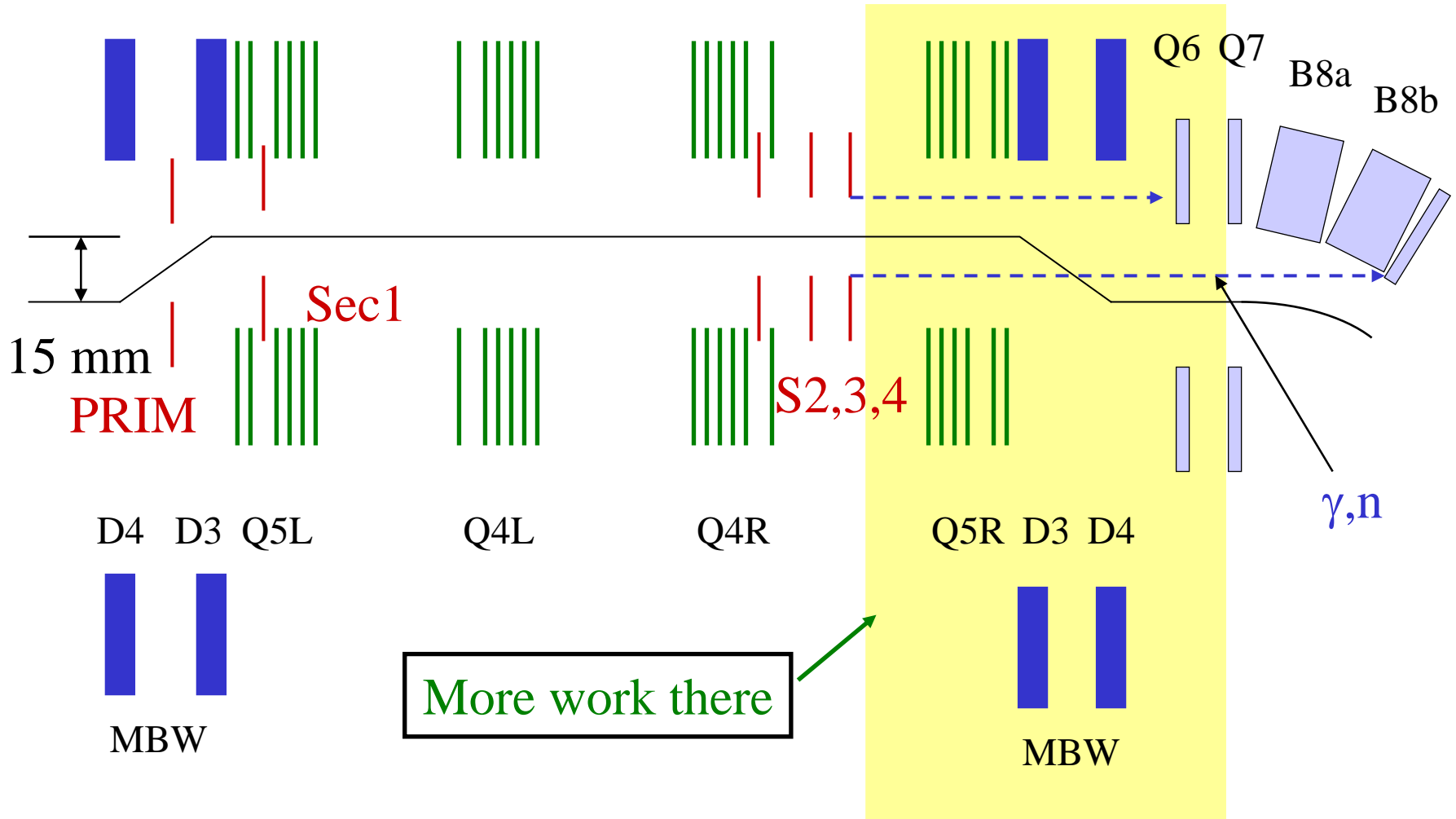
Active absorbers in IR3 – a short summary

Presented in more details a few months ago at
Collimation WG meeting by IB,
Review of the LHC Collimation Project by JBJ

Function - to absorb high energy radiation escaping
from the collimators

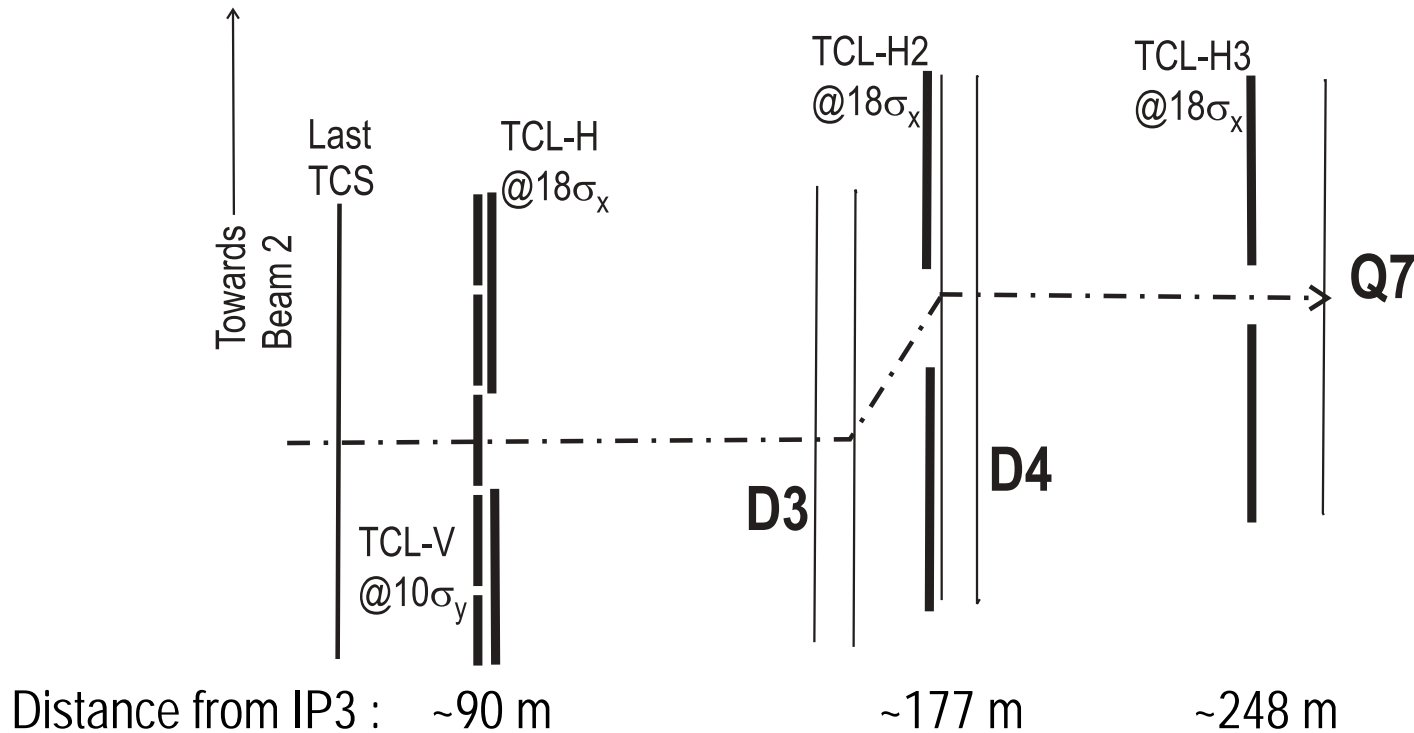
Primary goal - to prevent quenching of the closest
superconducting magnets

Layout of IR3 - baseline



Additional absorbers

$$n1 = 12.5, n2 = 14, L_{TCP} = 0.6 \text{ m}$$



Absorbers : 1m long Cu jaws ← standard

Lifetime limits at 7TeV due to quenching of SC magnets

SC magnet	Local Allowed Lifetime [hours]	
	No TCL	4 TCL
MCBCV	150	1.2
Q6	18	0.3
Q7	18	0.2
MB8a	15	1.8
MB8b	36	1.3
Q8	9	2.5