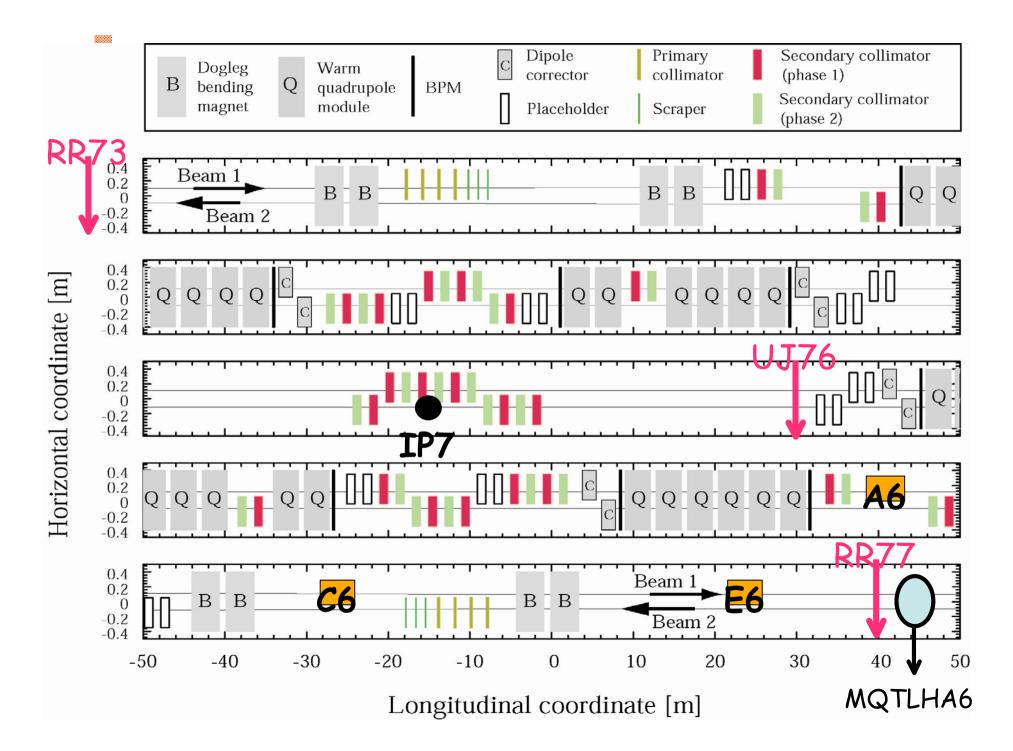
Shielding study for the regions UJ76/RR73/RR77 (I)

Katerina Tsoulou Alfredo Ferrari, Vasilis Vlachoudis, Mario Santana, Matteo Magistris

46th Collimation WG Meeting, 12/11/04



With Absorbers Case

Unfortunately, no new plots for the radiation levels (to be published next Friday)

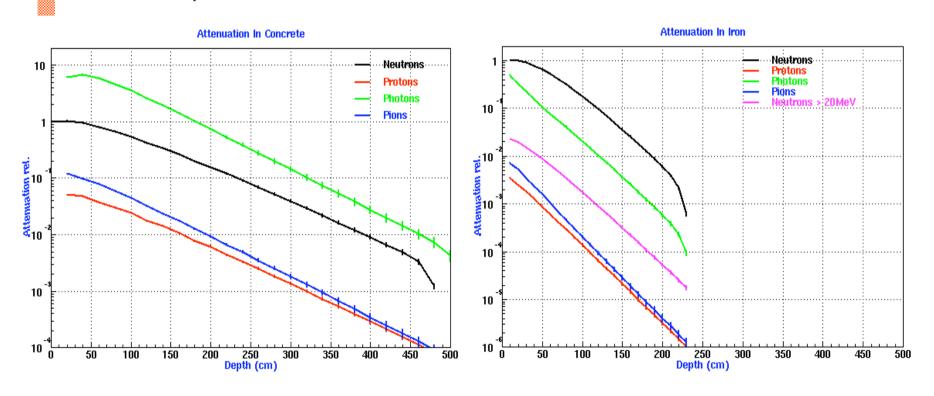
BUT: We don't expect to be much higher than those already presented in

http://lhc-collimation.web.cern.ch/lhc%2Dcollimation/files/KTsoulou_2004-09-20.pdf

Shielding Study

Shielding is needed for the RR73/77.

For the spectra in the RR entrances the attenuation will be:

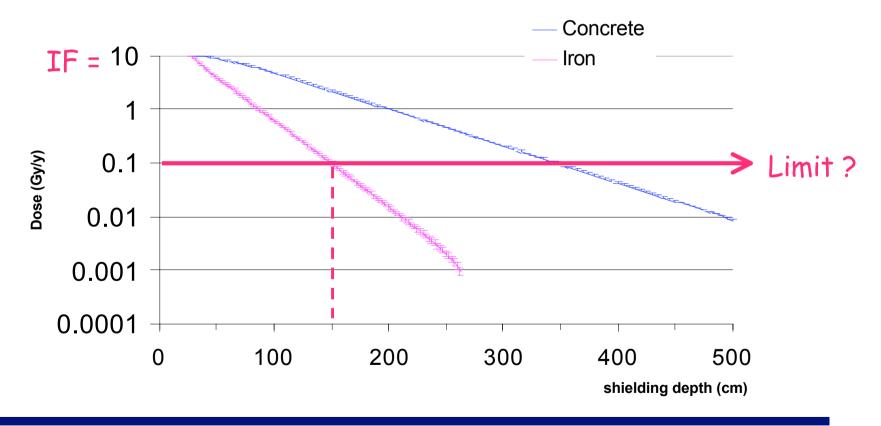


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Shielding Study

For the dose in the RR entrances the attenuation will be:

Dose Attenuation



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Shielding Study

Actions to take:

- Verify the Dose and Fluence levels in the RRs (Katerina Tsoulou → next week)
- 2. Discuss about space for shielding in the tunnel or in the RRs (Roger Valbuena?)
- 3. Estimate the number of sensitive electronics and their limits so as to calculate the annual failures (Thijs Wijnands?)
- 4. Re-do calculations with shielding (?)