

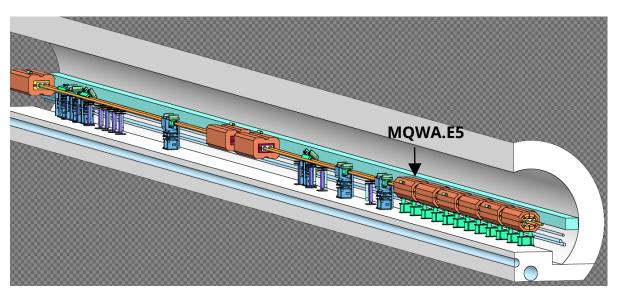




Post LS2 passive protection of the warm magnets of IR7

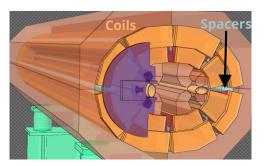
C. Bahamonde on behalf of the FLUKA team, thanking the contributions of A. Bertarelli, P. Fessia, D. Mirarchi, A. Mereghetti, S. Redaelli

Upgrade plans in IR7 warm section of LSS for LS2



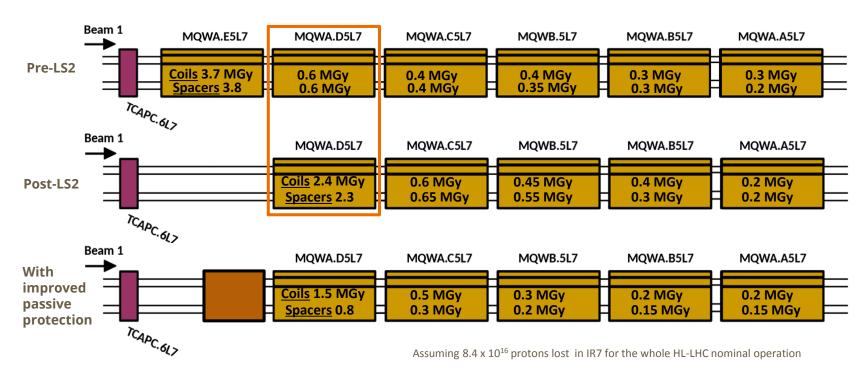
- MQWA.E5 removed
 (long-term radiation damage)
- Tungsten mask

 (installed in all magnets from MQWA.D5 to MQWA.A5)

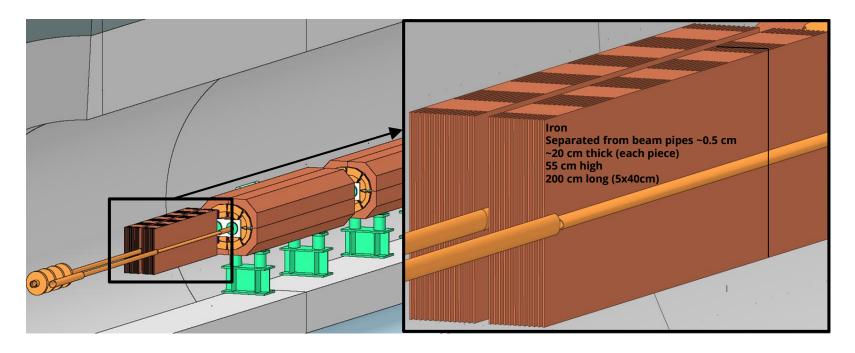


Dose received by downstream MQWs during HL-LHC should remain as if MQWA.E5 stayed in place

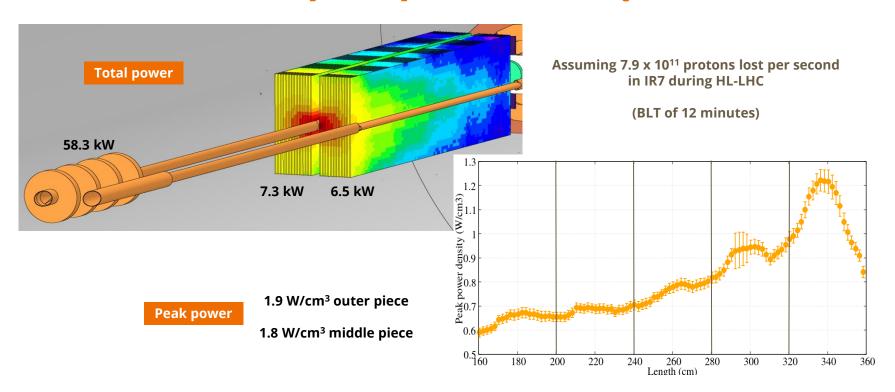
Total dose accumulated by the end of HL-LHC



Improved passive protection



Power loads and peak power density

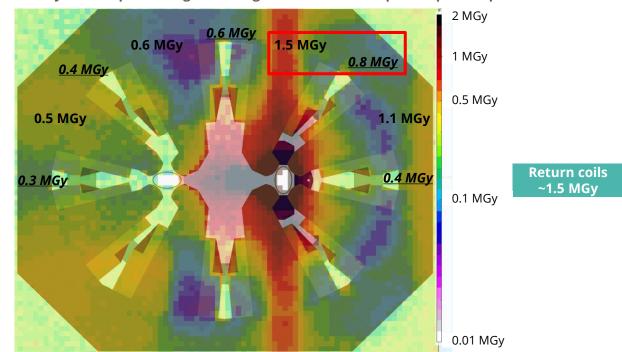


Limitations

■ Coils

■ <u>Spacers</u>

Dose accumulated by most exposed magnet during all HL-LHC with improved passive protection installed



03/11/17 C. Bahamonde - ColUSM #95 6