



HL-LHC Cryogenics Required Clarifications (2/2)

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On behalf of WP9 team and Cryogenic group

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Simplification of the QRL if we leave Q4 and Q5 as is in IR1 and IR5

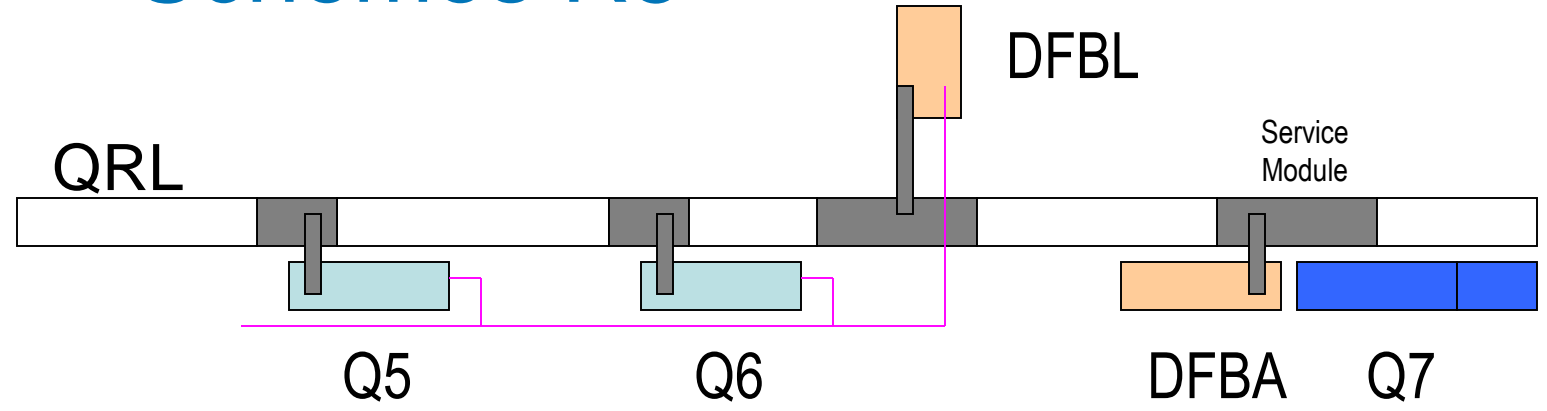
Easy to imagine (homogeneous origin for power, cryo cooling, possible savings),

For technology, LHC would remain up to Q4 new position, and Hilumi would go up to Crab cavities

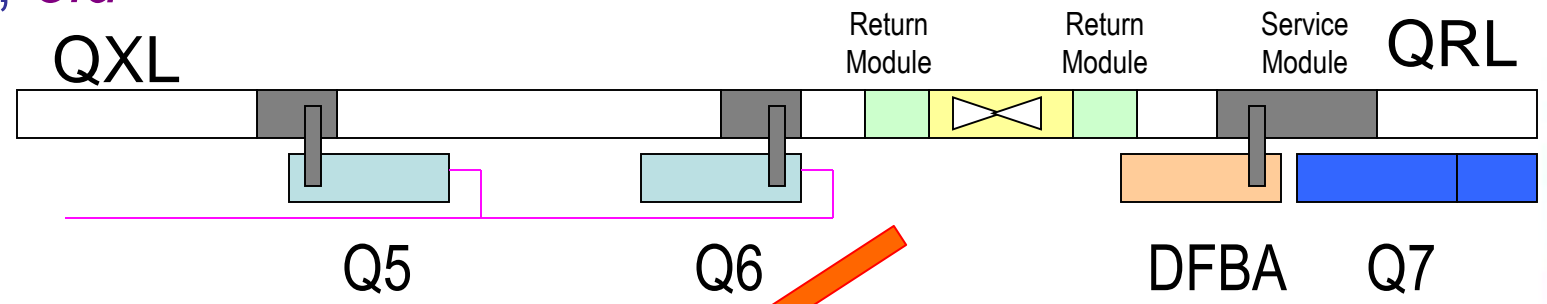
Integration to be looked at (Spring 2018),
Access sectorisation, junction with safety tunnel ...

Schemes R5

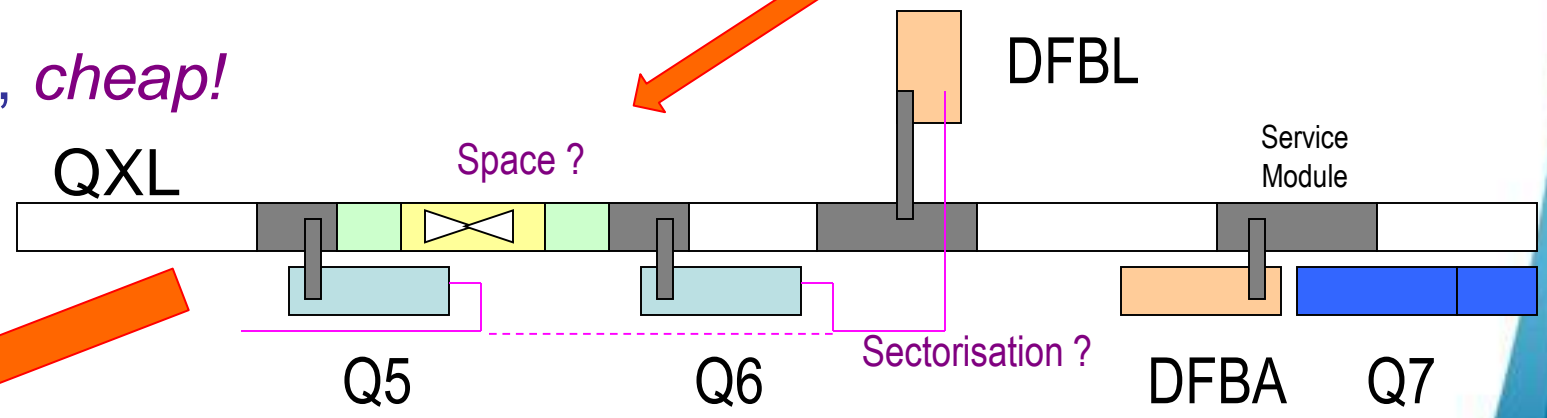
LHC



HL-LHC, *old*

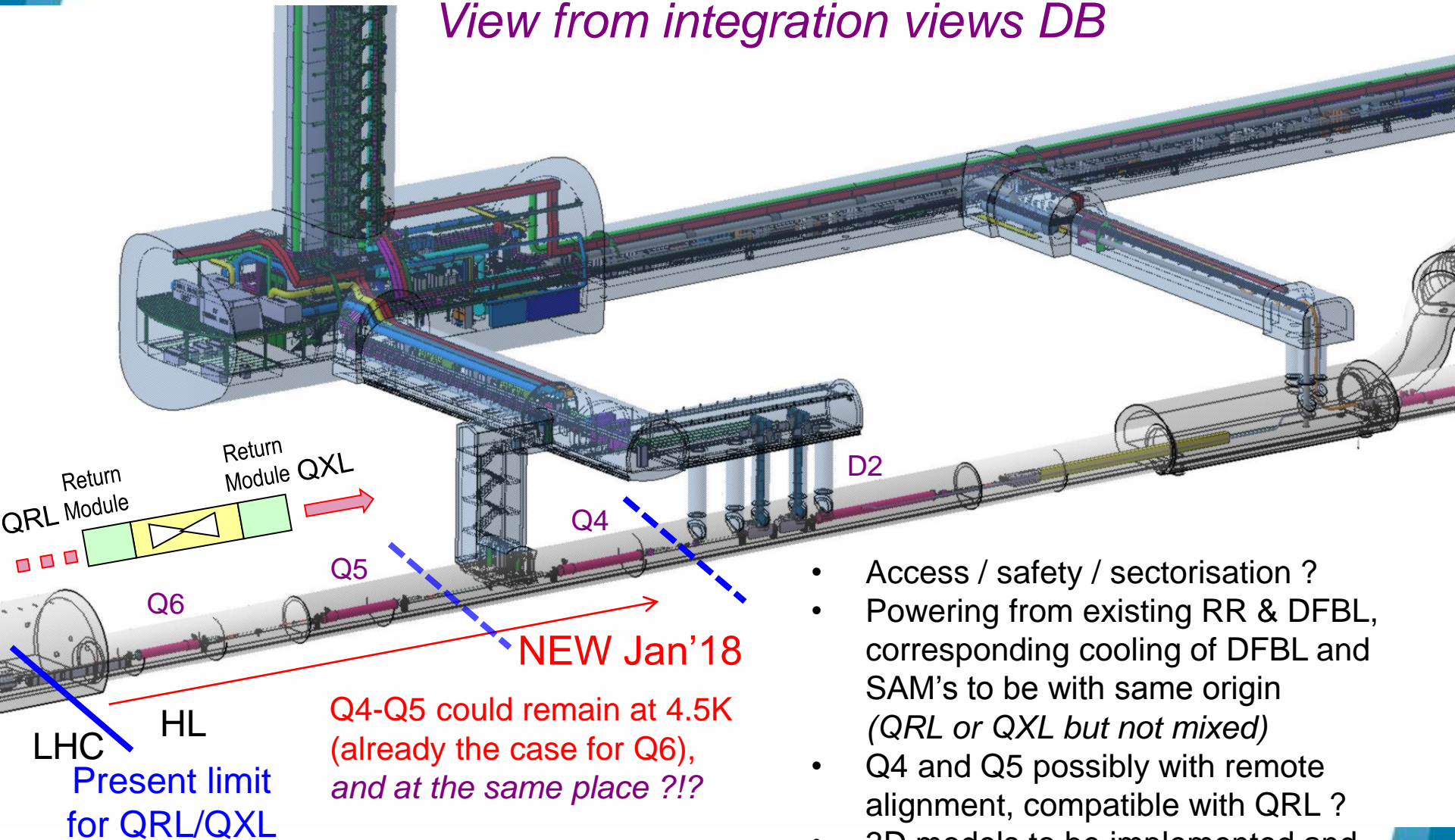


HL-LHC, *cheap!*



Example for 5R

View from integration views DB



- Access / safety / sectorisation ?
- Powering from existing RR & DFBL, corresponding cooling of DFBL and SAM's to be with same origin (QRL or QXL but not mixed)
- Q4 and Q5 possibly with remote alignment, compatible with QRL ?
- 3D models to be implemented and then integrated (Q2-2018 for CRG)