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The quench detection system for the 11 T MBH protection –the radiation tolerant version of the UQDS platform

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In this talk we present the quench detection equipment developed to protect the MBH 11T magnet in the LHC. Since the foreseen UQDS (universal quench detection system) will be installed in RR73 and RR77 the system needs to be radiation tolerant up to 0.4 Gy/y for the main system and 4 Gy/y for the current sensor. The system design, as well as the radiation testing of single components and the whole system will be discussed.

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