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New Rotating-coil Chains for the HL-LHC Cryomagnets

A coil chain is defined as an assembly of rotating coil segments, mechanically connected, that covers the entire field profile of long magnets. Rotating coil chains for field harmonics measurement of superconducting magnets had been heavily used on LHC cryo-magnets at CERN. The Insertion Region magnets for the HL-LHC project, with new geometries and tighter tolerances have required the development of new 10 m coil chains for the characterization of integral and local field. PCB coils in sandwich-type fibreglass assemblies and their calibration method, as well as examples of measurements of the first series magnets will be presented.

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