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## HTS magnet quench criteria (20'+5')

*Thursday 10 September 2015 17:55 (25 minutes)*

The protection of HTS magnets against quench and the induced damages is still considered as a key issue for HTS material use in reliable magnets. After a brief reminder about quench principle and the risk for HTS magnet, a way to improve the protection will be introduced from the adiabatic hot spot criteria. Examples of winding optimization for better detection and protection scheme for quicker dumping will be mentioned. The talk will finally introduce two magnet winding techniques under development for self- or nearly self-protecting HTS magnets.

**Presenter:** LECREVISSE, Thibault (CEA)

**Session Classification:** Criteria