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Optical fibers for quench detection (20'+5')

Friday, 11 September 2015 09:50 (25 minutes)

Due to slow quench propagation, early quench detection remains an unresolved challenge for HTS magnets. An emerging new approach, co-wound optical fibers interrogated via Rayleigh scattering, offer very high spatial and temporal resolution and the ability to detect a disturbance before the hot-spot temperature exceeds the current-sharing temperature. This talk will review recent progress on this technique, discuss the remaining challenges and possible solutions.

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Session Classification: Detection