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Microscopic investigation of flux expulsion at FNAL

Thursday, 8 November 2018 14:00 (10 minutes)

The efficiency of flux expulsion during the cavity superconducting transition is affected significantly by the properties of the material used to fabricate the cavity itself. Significant variability is indeed observed when comparing cavities fabricated with material coming from different vendors. Here we present results from a recent study in which the microscopic properties of different production grade materials are analyzed, aiming to correlate such properties with the flux expelling behavior of cavities

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