

LCLS-II TD material batch study on flux expulsion

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The SLAC National Accelerator Laboratory is currently constructing a major upgrade to its accelerator, the Linac Coherent Light Source II (LCLS-II). Several Department of Energy national laboratories, including the Thomas Jefferson National Accelerator Facility (JLab) and Fermi National Accelerator Laboratory (FNAL), are participating in this project. The 1.3-GHz cryomodules for this project consist of eight cavities produced by two vendors, Research Instruments GmbH in Germany (RI) and Ettore Zanon S.p.a. in Italy (EZ), using niobium cell material from Tokyo Denkai Co., Ltd. (TD) and Ningxia Orient Tantalum Industry Co., Ltd. (OTIC/NX).

The initial production cavities showed multiple deficiencies including manufacturing flaws from one vendor.

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Session Classification: Flux expulsion efficiency