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Single-strand excitation for examining current sharing and ICR in Nb₃Sn Rutherford Cable at 4.2K up to 15 Tesla

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S.S. Cored 27-strand Nb₃Sn Rutherford Cable was pressed onto a U-shaped holder and kept at magnet-relevant conditions throughout reaction, instrumentation, epoxy-impregnation, and measurement. Current was injected into a single strand of the cable under applied fields up to 15 Tesla and with varying I/I_c . Then, a graphite-paste heater pulse was used to initiate current sharing. ICR and current sharing was then measured using a hall-probe array and voltage taps. These measurements were performed using a small research magnet and are screening for cable and cable preparation protocol for larger scale measurements.

Primary author: KOVACS, Chris (Ohio State University)

Co-authors: Prof. COLLINGS, Edward (Ohio State University); Prof. SUMPTION, Michael (Ohio State University)

Presenter: KOVACS, Chris (Ohio State University)

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