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Toward Further Improvements in the Powder-In-Tube Process.

Powder-in-Tube (PIT) Nb₃Sn conductors have been fabricated. In this paper, we determine the effect of the nanoscale alumina on strengthening the tin through milling as a function of time to better match the mechanical properties of the Matrix NbTa. A closer match of the tin cores to the NbTa matrix is expected to help in uniform processing to achieve concentric tin cores. Characterization of the microstructure and non-Cu critical current density with applied field is presented.

Author: Dr MOTOWIDLO, Leszek (SupraMagnetics, Inc.)

Presenter: Dr MOTOWIDLO, Leszek (SupraMagnetics, Inc.)

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