



Contribution ID: 520

Type: **Poster Presentation**

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

Powder-in-Tube (PIT) Nb<sub>3</sub>Sn 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.

**Primary author:** Dr MOTOWIDLO, Leszek (SupraMagnetics, Inc.)

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

**Track Classification:** ICMC-01 - NbTi/Nb<sub>3</sub>Sn/A15 Processing and Properties