Contribution ID: **57** Type: **not specified**

Progress on New Compound Superconductors for SRF Cavities

Nb3Sn has led the way among higher-Tc alternatives to Nb for SRF applications, but it is still very far from its fundamental limits, especially in terms of quench field. While it is tempting to consider superconductors with even higher fundamental limits, we take an alternative approach, learning from the challenges encountered in Nb3Sn R&D and exploring materials that could more easily approach their fundamental limits and provide practical alternatives to Nb in the near future.

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