

Pushing the Limits of RF Superconductivity Workshop

Abstract Submission Form for Contributed Talks

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Session: (choose one)

Ultimate Field Limits, New Materials, New Geometries

High Q, Field Emission, Q-Slopes

Future Research Paths to Ultimate Performance

ABSTRACT:

Title: Optimization of RRR niobium bulk properties

The bulk RRR niobium SRF cavity fabrication costs should be considered in determining the ultimate performance of the acceleration systems for the envisaged upgrades and future ILC. In this presentation the details of the optimization of the RRR niobium bulk properties will be presented. In addition, future research paths are also discussed to not only achieve the ultimate performance from the achievable highest gradients but also at the reduction of costs in producing such structures.
