

WG2 Cavity Material – Charlie Reece and Waldemar Singer, co-conveners

Tue., March 25th, 4.5 hours, 13:30 – 18:00

The conveners seek short (3~5 slides), specific contributions under the following four topics regarding bulk Nb for SRF. Relevant poster contributions recycled from other venues are encouraged, as well as new recent results. We seek to stimulate active, informed discussion. Please contact Waldemar Singer (waldemar.Singer-at-desy.de) and/or Charlie Reece (reece-at-jlab.org) for contribution coordination.

1. Recent practical experience
 - Specific material issues encountered in fabrication or performance
2. “Classic” (fine-grain) cf. “Ingot” (large-grain) niobium – distillation of observed property differences
3. Purity specifications – what really matters and why? New information on old topics?
 - Inclusions, interstitials, Ta, H, RRR / mean free path – where?
4. When does applied “process” alter “material” in important ways?
 - Structure and composition changes from thermal treatment processes
 - Topography, what matters?