

HOT TOPICS: RECIPES FOR 9-CELL CAVITY FABRICATION AND PREPARATION

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Abstract

In the mass production of International Linear Collider (ILC), about 16,000 9-cell SRF cavities must be produced for the linac. The current recipe of 9-cell cavity production is not enough for the required cost reduction for ILC. Various ideas for the cost reduction of 9-cell cavity fabrication would be discussed in this presentation. As the final surface treatment of 9-cell cavity, the Electro-Polishing (EP) is the best candidate to realize high yield rate for high-gradient performance. However, the laboratories in the world are still using different EP parameter-sets for various reasons. In this presentation, the comparison of EP parameters among laboratories would be done and how we can reach to the best parameter sets would be discussed.

**CONTRIBUTION NOT
RECEIVED**