

A report on the CBMM-JLab SRF science & technology of ingot niobium summary workshop*

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CBMM North America and Jefferson Lab entered into a Cooperative Research And Development Agreement to develop ingot niobium technology for efficient and economic SRF linacs in 2004. The final ingot niobium summary workshop, a third in the series, was recently hosted at Jefferson Lab Dec 4, 2015 in collaboration with CBMM(1). In this presentation I will give a brief summary of the workshop. In addition I will review the specifications of niobium for SRF cavities, discuss the role of thermal diffusivity of niobium in the performance limitation of the present SRF cavities and propose new process-procedures for producing improved SRF cavities efficiently & economically.

(1)<https://www.jlab.org/conferences/ingot/index.html>

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