Virtual International Workshop on Nb3Sn SRF Science, Technology, and Applications (Nb3SnSRF'20)



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Nb3Sn 5-cell cavity qualification for Nb3Sn cryomodule

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Two 1.5 GHz 5-cell accelerator cavities have been coated with Nb3Sn in JLab Nb3Sn cavity coating system. The cavities were qualified at 4 K in the vertical dewar test and are progressed towards their installation into a cryomodule. One of the cavities was used to study fundamental limitation of the coating material using two-mode excitation. Results from the fundamental study as well as the practical challenges in the construction of SRF cryomodule with Nb3Sn cavities will be presented.

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