Contribution ID: 193 Type: Oral

## **SRF Material Options for FCC**

Tuesday 12 April 2016 13:50 (20 minutes)

In contrast to bulk niobium, the use of niobium on copper coated SRF cavities allows operation at 4.5 K due to the lower BCS resistance and the high thermal stability of the copper substrate. Moreover, Nb/Cu technology lowers significantly production cost for cavities as well as the cryo modules as coated cavities do not require magnetic shielding. This talk will present the latest advances in the niobium thin film development with the focus on energetic condensation techniques.

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Session Classification: Material, cavities and cryomodules R&D

Track Classification: Superconducting RF