

Perspective of the SRF performance of Nb coatings

Niobium films have several advantages over bulk Niobium and Nb coated copper cavities found application in accelerators like LHC and HIE Isolde. However, the application of Nb/Cu technology for SRF cavities is still limited for low accelerating gradients. This talk will give an overview over the SRF performance of Nb coated cavities in the past, the current research activities around the world and discuss the challenges for pushing the application range to higher accelerating gradients.