

7th SRF Materials Workshop

Monday, July 16, 2012

Session 2 - Theory and basic measurements - CEBAF Center F113 (10:20 AM - 12:30 PM)

time	[id] title	presenter
10:20 AM	[5] Tuning the superheating and RF break-down fields of type-II superconductors by impurities	LIN, Fareh
10:35 AM	[6] Calculations of hotspots caused by trapped vortices	GUREVICH, A.
10:50 AM	[7] DFT analyses of structures that limit SRF cavity performance: I. interactions between Nb, H, and native defects	FORD, D.
11:00 AM	[8] DFT analyses of structures that limit SRF cavity performance: II. interactions with other interstitials, chiefly oxygen	FORD, D.
11:10 AM	[11] The Closing Quasiparticle Spectral Gap and its Implications for Nb ₃ Sn	POSEN, Sam
11:25 AM	[12] Quench and trapped flux studies at Cornell	GONNELLA, Daniel
11:40 AM	[13] Variation of Surface Superconductivity with cold-work deformations on Superconducting RF quality Niobium	SUNG, Zuhawn
11:55 AM	[14] Laser heating and laser scanning microscopy of SRF cavities	CIOVATI, Gigi
12:10 PM	[15] Discussion - Theory and basic measurements	