

TTC2023 Meeting, Fermilab

Tuesday, 5 December 2023

WG1: Progress on High Q and High Gradient activities - One West (11:00 - 12:30)

-Conveners: Detlef Reschke (DESY); Daniel Bafia (FNAL); Jinfang Chen (SARI); Akira Miziyaki (IJCLab)

time	[id] title	presenter
11:00	[42] Introduction and short summary of remote WG high-Q/high-G	MIYAZAKI (CNRS/IN2P3/IJCLB), Akira
11:15	[43] LCLS-II-HE Cavity and CM Results	MANISCALCO (SLAC), James
11:30	[44] Performance of first mid-T 1.3 GHz cryomodules	LI (IASF), Han ZHAI (IHEP), Jiyuan
11:45	[45] Recent results of SHINE High-Q cavities and cryomodules	CHEN (SARI, CAS), Jinfang MA (SARI), Zhenyu
12:00	[46] The first horizontal test results of TESLA-type large grain 9-cell cavity at KEK	YAMADA (KEK), Tomohiro
12:15	[47] Exploring mode mixing in PIP-II LB650 Cavities: Impact of 350C furnace baking on reduction post HPR and vertical tests	WU (FNAL), Genfa

WG1: Progress on High Q and High Gradient activities - One West (14:00 - 15:30)

-Conveners: Detlef Reschke (DESY); Daniel Bafia (FNAL); Jinfang Chen (SARI); Akira Miziyaki (IJCLab)

time	[id] title	presenter
14:00	[48] In-situ baking of SRF cavities	KUGELER (HELMHOLTZ-ZENT RUM-BERLIN) , Oliver
14:15	[49] Cooldown dependencies of mid-T treated cavity performance	BATE (DESY), Christopher
14:30	[50] 80.5 MHz QWR 4K Q curves with various surface treatments	BROWN (MSU), Jacob
14:45	[51] RF and Material Studies on Interstitial Impurities in Bulk Nb Cavities	HU (UCHICAGO), Hannah
15:00	[52] Study of interstitial oxygen as a result of various surface treatments	WENSKAT (UNIVERSITY OF HAMBURG), Marc
15:15	[53] Update on Analysis of Low RRR SRF Cavities	HOWARD (UCHICAGO), Katrina

WG1: Progress on High Q and High Gradient activities - One West (16:00 - 18:00)

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time	[id] title	presenter
16:00	[54] Recent Beta-NMR Studies at TRIUMF	THOENG (TRIUMF), Edward
16:15	[55] Electromagnetic Response of Disordered Superconducting cavities	ZAREA (LOUISIANA STATE UNIVERSITY), Mehdi
16:30	[56] Anomalous frequency shift within Dynes superconductor theory	HERMAN (COMENIUS UNIVERSITY IN BRATISLAVA), František
16:45	[57] EP parameter investigation for low and high beta 650 MHz niobium cavities	CHOUHAN (FNAL), Vijay

17:00	[58] Plasma Electrolytic Polishing	PIRA (INFN LNL), Cristian
17:15	[59] Topographic Evolution of Heat-Treated Nb Upon Electropolishing for SRF Applications	LECHNER (JLAB), Eric

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time	[id] title	presenter
11:00	[60] Suppression of field emission for the SRF cavities at KEK	YAMADA (KEK), Tomohiro
11:15	[61] Update on Traveling Wave Cavity Progress at FNAL	FURUTA (FNAL), Fumio
11:30	[62] Development and Application of Nb ₃ Sn Thin Film SRF Cavity at IMP	HAO (PKU), Jiankui YANG (IMP), Ziqin
11:45	[64] ALD surface engineering for SRF cavities	KALBOUSSI (CEA SACLAY), Yasmine
12:00	[65] SRF multi-layer thin film R&D at KEK	KATAYAMA (KEK), Ryo
12:15	[67] Comparison of Nb, Nb ₃ Sn, MgB ₂ , cuprate, and pnictide for future SRF cavities	MIYAZAKI (CNRS/IN2P3/IJCLB), Akira