



# International Workshop on Breakdown Science and High Gradient Technology (HG2021)

## Wednesday, 21 April 2021

### Session 6: Theory & Materials (07:00 - 11:30)

-Conveners: John Lewellen

time	[id] title	presenter
07:00	[46] Atomistic approach in understanding of mechanisms leading to vacuum arcing	Prof. DJURABEKOVA, Flyura
07:30	[45] Model and observations linking plastic activity to arc nucleation	Dr ASHKENAZY, Yinon
08:00	[47] Atomistic modeling of the coupling between electric fields and bulk plastic deformation in RF structures	Dr PEREZ, Danny
08:30	[48] Ab initio alloy design for C-band accelerators	Dr WANG, Gaoxue
09:00	Coffee Break	
09:30	[49] Developing Field Emission Models Employing Nanoscale Surface Characterization	HOPKINS, Matthew
10:00	[50] Diamond at High Gradients	Prof. BARYSHEV, Sergey
10:30	[52] Local power coupling as a predictor of high-gradient breakdown performance	Prof. PASZKIEWICZ, Jan
11:00	[51] Multi-scale multi-physics simulations of vacuum breakdown phenomena	Prof. KYRITSAKIS, Andreas