



# 9th International Workshop on Mechanisms of Vacuum Arcs (MeVArc 2021)

## Wednesday, 10 March 2021

### Poster Session: Breakdown in RF structures & diamond (15:45 - 17:00)

-Conveners: Marek Jacewicz; Andreas Kyritsakis

| time  | [id] title  | presenter           |
|-------|---|---------------------|
| 15:45 | [28] Field Emission Microscopy of Diamond and Nanotube Materials  | Mr POSOS, Taha Y.   |
| 16:10 | [8] FEgen v.1: Fowler-Nordheim Equation Based Initial Particle Distribution Freeware for Advanced Beam Dynamics Simulations | Ms JEVARJIAN, Emily |
| 16:35 | [6] FEbeam: A Comprehensive Field Emission Data Processing for Field Emission and Breakdown Analysis in RF Environment      | SCHNEIDER, Mitchell |

### Poster Session: Experiments & Diagnostics (15:45 - 17:05)

-Conveners: Walter Wuensch; Matthew Hopkins

| time  | [id] title   | presenter           |
|-------|--|---------------------|
| 15:45 | [4] Study of X-ray spectra emitted during High Voltage DC conditioning in high vacuum            | PILAN, Nicola       |
| 16:05 | [10] Low-Z anode wires testing for particle accelerator electrostatic septa                      | BORBURGH, Jan       |
| 16:25 | [18] Application of Machine Learning to Breakdown Prediction in CERN's High-Gradient Test Stands | Mr MILLAR, Lee      |
| 16:45 | [3] Analysis of surface temperature dynamics of switching vacuum arc contacts                    | GORTSCHAKOW, Sergey |

# Thursday, 11 March 2021

## Poster Session: Field emission (15:45 - 17:05)

-Conveners: Yinon Ashkenazy; Sergio Calatroni

| time  | [id] title   | presenter           |
|-------|--|---------------------|
| 15:45 | [36] Quantum oscillations as a possible way of the increasing pre-breakdown field emission current | LEBEDYNSKYI, Serhii |
| 16:05 | [43] A tutorial commentary on the Schottky constant  | FORBES, Richard     |
| 16:25 | [42] Comments on the presentation of field emission theory in the SLAC report                      | FORBES, Richard     |
| 16:45 | [21] Nano-tendrils bundles behavior under plasma-relevant electric fields                          | KULAGIN, Vladimir   |

## Poster Session: Modelling and simulations (15:45 - 17:05)

-Conveners: Anton Saressalo; Antonio De Lorenzi

| time  | [id] title  | presenter               |
|-------|---|-------------------------|
| 15:45 | [39] Diffusion on Cu Surface under Electric Field with Collective Variable-accelerated Molecular Dynamics   | KIMARI, Jyri            |
| 16:05 | [31] Micron-scale Field Emission Model for PIC-DSMC Simulations Based on Nanoscale Surface Characterization | MOORE, Chris            |
| 16:25 | [25] Polarization characteristics of adatoms diffusing on W{110} surface under applied electric field       | BAIBUZ, Ekaterina       |
| 16:45 | [12] Hydrogen accumulation in copper: hydrostatic effect on dislocations                                    | LOPEZ CAZALILLA, Alvaro |