

Session Program

8-12 Mar 2021



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

Modelling and simulations

Online

Tuesday 9 March

14:00

Modelling and simulations: Arc and plasma dynamics

Session | Location: Online | Convener: Matthew Hopkins

14:00–14:30

Electrostatic discharges on very large spacecrafts solar panels: coupled model of a cathode spot and flash-over expansion in vacuum

Speaker

Loanne Monnin

14:30–15:00

Investigation of Vacuum Breakdown in Pulsed DC Systems

Speaker

Dr Helena T. C. Kaufmann

15:00–15:30

Kinetic Simulation of the Plasma Dynamics in the Post-arc Stage

Speaker

Dan Wang

15:30

Friday 12 March

15:45

Modelling and simulations: Breakdown Models

Session | Location: Online | Convener: Chris Moore

15:45-16:15 Monte Carlo Model of High-Gradient Conditioning and Operation

Speaker

Mr Lee Millar

16:15-16:45

Application of the Voltage Holding Prediction Model to floating and fixed shield vacuum interrupters

Speaker

Tommaso Patton

16:45-17:15

Ab initio investigation of Cu nanoparticle behavior under high electric field

Speaker

Ye Wang

17:15-17:45

An integrated approach to understanding RF vacuum arcs

Speaker

Jim Norem

17:45