

The previous *Breakdown Workshop* (CERN, 2010) has inspired a new series of workshops to combine the efforts of researchers in the different fields to understand the mechanisms underlying the highly intriguing phenomenon of electrical breakdown.

This workshop will cover **rf** and **dc** types of electrical breakdowns, both theoretically and experimentally.

Topics

- 1. Experiments: vacuum arcs, dc spark systems, rf accelerating structures, materials, diagnostics, techniques and technologies for high gradients, arcing in fusion devices.
- Theory and simulations: Surface 2. modification under electric and fields. dislocation electromagnetic activity, PIC plasma simulations, plasma-wall interactions. surface damage and other.
- **3.** Applications: Particle accelerators, fusion devices, satellites and industrial.

Venue

The workshop will be held at the University of Helsinki near the harbor area. You will have a chance to experience the famous "white" nights which never turn fully dark!

Organizers:

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http://beam.acclab.helsinki.fi/hip/mevarc11

