

**Session Program**

**4-7 Nov 2013**

**4th International Workshop on Mechanisms of  
Vacuum Arcs (MeVArc 2013)**

***Theory and Simulation 2 - Plasma***

Hotel Les Aiglons  
270 Avenue de Courmayeur 74400 Chamonix-Mont-Blanc

# Wednesday 6 November

11:00

## Theory and Simulation 2 - Plasma: part 1

**Session** | **Location:** Hotel Les Aiglons, 270 Avenue de Courmayeur 74400 Chamonix-Mont-Blanc | **Convener:** Dr Yinon Ashkenazy

11:00-11:30

### Paschen Concepts in Non-Uniform Gas

**Speaker**

Matthew Hopkins

11:30-12:00

### Molecular Dynamics Simulations > of Ion Irradiation of a Surface under an Electric Field

**Speaker**

Stefan Anton Parviainen

12:00-12:30

### Ignition of explosive electron emission pulses - ectons as initiation of vacuum discharge stages - the breakdown, the spark, and the arc

**Speaker**

Mikhail Tsvetoukh

12:30

## Thursday 7 November

09:00

### Theory and Simulation 2 - Plasma: part 2

**Session** | **Location:** Hotel Les Aiglons, 270 Avenue de Courmayeur 74400 Chamonix-Mont-Blanc | **Convener:** Flyura Djurabekova

09:00-09:30

#### Modeling approaches to vacuum arc plasmas

**Speaker**

Michael Keidar

09:30-10:00

#### Particle-in-cell simulation of vacuum arc ignition and development

**Speaker**

Kyrre Ness Sjobaek

10:00-10:30

#### 1D PIC/DSMC computer modeling of near-cathode plasma layers and expansion of cathode plasma flare of vacuum arc cathode spot

**Speaker**

Dmitry Shmelev

10:30-11:00

#### Coffee

11:00-11:30

#### PIC simulation of vacuum arc

**Speaker**

Mrunal Parekh

11:30-12:00

#### Computational Efficiency for Kinetic Simulation of Vacuum Arcs

**Speaker**

Matthew Hopkins

12:30