

# **Ringberg Meeting**

**October 12 - 14, 2011**

## **10 Years of Complex Plasmas on ISS**

### **Agenda**

#### **Wednesday, October 12**

12:00 Bus departure from MPE

#### **14:00 Coffee break**

14:15 G. Morfill: Welcome

14:30 V. Molotkov: History of ISS experiments with complex plasmas

15:00 H. Thomas: PK-3 Plus – Status, Future and recent results

15:30 C. Du: Detailed study of lane formation on the ISS

#### **16:00 Coffee break**

16:30 L. Wörner: Decharging experiments on the ISS

17:00 M. Schwabe: Crystallisation experiments with PK-3 Plus

17:30 P. Huber: Crystallization in 3D in the lab and in space

#### **18:30 Dinner**

#### **Thursday, October 13**

9:00 T. Antonova: Charging of particles in the deep sheath during dusty plasma expansion

9:30 P. Brandt: Pressure - driven effects in electrorheological complex plasmas

10:00 A. Khrapak: "Dielectric catastrophe" and insulator-conductor transition

#### **10:30 Coffee break**

11:00 V. Yaroshenko: Excitation of the dust density waves in discharge plasmas

11:30 V. Nosenko: Microstructure of a sheared liquid complex (dusty) plasma

12:00 R. Heidemann: Shear flow instability

**12:30 Lunch**

**14:00 PK-4 Session**

14:00 E. Kufner: Status ESA

14:20 V. Molotkov: Status in Russia

14:30 A. Stettner: Status KT

15:00 M. Pustyl'nik: Status MPE

15:20 Discussions

**15:40 Coffee Break**

16:00 M. Thoma: Parabolic Flight Campaign 2010

16:20 M. Thoma: Electrorheology with PK-4

16:40 S. Mitic: In situ characterization of nanoparticles during growth by means of white light scattering

**17:00 A. Skvortsov: "Work and life on ISS" (cosmonaut's impressions)**

**18:30 Bavarian Evening – Celebration of 10 years of research on the ISS**

## **Friday, October 14**

09:00 N. Sato: Sendai Plasma Experiments

09:30 M. Pustyl'nik: Laser excited heart-beat instability

10:00 L. Vasilyak: Bi-particles and polyparticles clusters in dusty plasma

**10:30 Coffee break**

11:00 S. Khrapak: Freezing and melting of complex plasmas under microgravity: Towards detailed study of the complex plasma phase diagram

11:30 C. Knappek: PlasmaLab-parabolic flights 2011

**12:30 Lunch**

14:00 Bus departure from Ringberg Castle

Ca. 15:30 Arrival in Garching