

# **NGLDM - The next generation for Low Density Matter**

**Wednesday 15 March 2017 - Thursday 16 March 2017**

**MAX IV**

## **Scientific Programme**

**Wednesday 15th March LOCATION: MAX III room MAX IV, Fotongatan 2, 22592 Lund**

**13:00 – 13:45**

**Participant Registration**

13:45 – 13:50

Safety Information

**13:50 – 14:10**

**Welcome** *Jesper Andersen MAX IV Science Director*

14:10 – 15:00

Plenary Speaker: *Maria Novella Piancastelli*  
*Recent advances in electronic and nuclear dynamics of photoexcited and photoionized atoms and molecules*

15:00 – 15:35

*Victor Kimberg*  
*Theory of resonant x-ray scattering for advanced applications*

**15:35 – 16:05**

**Coffee Break**

16:05 – 16:40

*Annette Pietzsch*

*Local maps of potential energy surfaces and chemical pathways*

16:40 – 17:15

*Lorenzo Avaldi*

*Coincidence experiments in molecular systems*

17:15 – 17:35

Contributed talk: Teresia Olsson

*Pseudo-Single-Bunch mode for the MAX IV 1.5 GeV storage ring*

17:35 – 18:00

Beamline Blitz

*Short overview of the LDM relevant beamlines at MAX IV.*

*Come & talk to us at the poster session!*

**18:00-20:00**

**Poster session (Refreshments/Buffer)**

**20:00**

**Bus from MAX IV to Lund C**

**Thursday 16th March**    **LOCATION: MAX III room MAX IV, Fotongatan 2, 22592 Lund**

9:00 – 9:50

Plenary Speaker:: *Reinhard Dörner*  
*The power of coincidence imaging*

9:50 – 10:25

*Jérôme Palaudoux*  
*Single photon multiple ionization of atoms and molecules studied by multielectron coincidence spectroscopy*

10:25 – 10:45

Contributed Talk: Jan-Erik Rubensson  
*LDM RIXS @ MAX IV*

**10:45 – 11:15**

**Coffee Break**

11:15 – 11:50

*Oriol Vendrell*  
*Core-level spectroscopies as a sensitive tool to trace valence electronic structure and ultrafast electronic dynamics in molecules.*

**11:50 – 13:00**

**Round Table Discussion**    *Chair: Prof. Stacey Sörensen*

**13:00 – 14:00**

**Lunch**

14:00 – 14:35

*Bernd Winter*

*Photoemission Spectroscopy from Aqueous Solutions: Ultrafast Proton and Electron Dynamics*

14:35 – 15:10

*Kuno Kooser*

*Chemistry of acetamide in microclusters and solutions studied by VUV/X-ray spectroscopic techniques*

15:10 – 15:30

Contributed Talk: Nonne Prisle

*From molecules to rain: atmospheric studies on liquid jet, droplets and clusters*

**15:30 – 16:00**

**Coffee Break**

16:00 – 16:35

*Minna Patanen*

*Next generation studies of gas-phase clusters – more than compensating the low density with higher flux*

16:35 – 16:55

Contributed Talk: Cesare Grazioli

*Electronic structure of biphenylene films: from gas phase to films*

16:55 – 17:15

Contributed Talk: Sylvain Maclot

High-intensity XUV attosecond pulses for studies of molecular dynamics

17:15 – 17:30

**Closing comments**      *Prof. Stacey Sørensen*