

## **Session Program**

**8-10 Jul 2025**



# **HFML-FELIX user meeting / EPSRC UK users of FELIX workshop**

## **Oral sessions**

Huygens, HG00.304  
Heyendaalseweg 135 - 6525 AX Nijmegen

## Tuesday 8 July

14:00

### Oral sessions: Tuesday PM-1

**Session** | **Location:** Huygens, HG00.304, Heyendaalseweg 135 - 6525 AX Nijmegen

14:00–14:20

#### Welcome - HFML-FELIX as a national institute

##### Speaker

Jos Oomens

14:20–14:40

#### Technical installations of HFML-FELIX, an update and outlook

##### Speakers

Wouter Stumpel, Andries den Ouden

14:40–15:20

#### IR spectroscopy of ionized endohedral fullerenes

##### Speaker

Julianna Palotas

15:20

16:00

### Oral sessions: Tuesday PM-2

**Session** | **Location:** Huygens, HG00.304, Heyendaalseweg 135 - 6525 AX Nijmegen

16:00–16:40

#### Using FELIX to Investigate IR Photon Induced Desorption From Astrophysically Relevant Ice Surfaces

##### Speaker

Wendy Brown

16:40–17:00

#### IR spectroscopy in high magnetic fields: Performing combination experiments at HFML-FELIX

##### Speaker

Dr Maurice Bal

17:00–17:20

#### Cryogenic IR Spectroscopy of the Hydrogen-Bonded Phosphoric Acid Dimer

##### Speaker

América Torres Boy

17:20

## Wednesday 9 July

09:00

### Oral sessions: Wednesday AM-1

**Session** | **Location:** Huygens, HG00.304, Heyendaalseweg 135 - 6525 AX Nijmegen

09:00–09:40

#### Spectroscopic studies of cold, trapped anions in radiofrequency multipole traps

##### Speaker

Kartrin Dulitz

09:40–10:00

#### Isomer-selective formation methods of astrochemical ions characterized by IR action spectroscopy

##### Speaker

Vincent Richardson

10:00–10:20

#### Catalysis meets Astrochemistry: Ultra-Small Magnesium-Silicates in the Gas-Phase

##### Speaker

Sandra Lang

10:20–10:40

#### IR-FEL Investigation of NO activation on Cobalt Clusters

##### Speaker

Peter Rubli

11:00

11:30

### Oral sessions: Wednesday AM-2

**Session** | **Location:** Huygens, HG00.304, Heyendaalseweg 135 - 6525 AX Nijmegen

11:30–12:10

#### Orbital FF/LO Phases in NbSe<sub>2</sub> Multilayers

##### Speaker

Jianting Ye

12:10–12:30

#### Interaction of infrared free electron lasers with metasurfaces: present status and future directions

##### Speaker

Amirmostafa Amirjani

12:30–12:50

#### Sum- Frequency Generation Spectro-Microscopy using the FHI-FEL

##### Speaker

Dorothee Mader

13:00

14:00

### Oral sessions: Wednesday PM-1

**Session** | **Location:** Huygens, HG00.304, Heyendaalseweg 135 - 6525 AX Nijmegen

14:00–14:40

#### Controlling order with light

##### Speaker

Michael Först

14:40–15:00

**Fractional Quantum Hall Experiments on Twisted Graphene and Parton-Based Topological States****Speaker**

Vittorio Bellani

15:00–15:20

**Ultrafast all-optical modulation with strongly coupled mid-IR plasmonic metasurfaces****Speaker**

The Linh Pham

15:20

16:00

**Oral sessions: Wednesday PM-2****Session** | **Location:** Huygens, HG00.304, Heyendaalseweg 135 - 6525 AX Nijmegen

16:00–16:20

**IRMPD spectra of  $[\text{Fe}_2\text{O}_2\text{H}]^+$ ,  $[\text{Fe}_2\text{O}_2\text{H}]^+$ , and  $[\text{Fe}_2\text{O}_2\text{H}]^+$  in the 110–2000  $\text{cm}^{-1}$  spectral range****Speaker**

Christian van der Linde

16:20–16:40

**Visualizing and Identifying Metabolites using Mass Spectrometry Imaging and IR Ion Spectroscopy****Speaker**

Jelle Schuurman

16:40–17:00

**Integrated Electrochemistry and Mass Spectrometry for Molecular Insights into Electrochemical Reactions****Speaker**

Abhinav Bairagi

17:00

# Thursday 10 July

09:00

## Oral sessions: Thursday AM-1

**Session** | **Location:** Huygens, HG00.304, Heyendaalseweg 135 - 6525 AX Nijmegen

09:00–09:40

### IR-MPD Studies of Molecular Activation at Metal Clusters

#### Speaker

Christian Haakansson

09:40–10:00

### Vibrational spectra of singly and doubly hydrated $\text{TaO}^{2+}$ cations

#### Speaker

Sarah Madlener

10:00–10:20

### Gas phase fullerene-metal complexes as reaction models

#### Speaker

Yufei Zhang

10:20–10:50

### IR characterization of phenanthrene clusters and phenylsilane discharge products as potential astrochemical inventory

#### Speaker

Melanie Schnell

10:50

11:20

## Oral sessions: Thursday AM-2

**Session** | **Location:** Huygens, HG00.304, Heyendaalseweg 135 - 6525 AX Nijmegen

11:20–12:00

### Molecular structure identification to identify novel biomarkers for metabolic disease

#### Speaker

Dirk Lefeber

12:00–12:20

### Gas phase IR spectroscopy in helium nanodroplets of non-classical carbocations

#### Speaker

David Battke

12:20–12:40

### Fragmentation mechanisms of corticosteroids, androgens and progestogens revealed by IRMPD spectroscopy

#### Speaker

Laura Finazzi

12:40