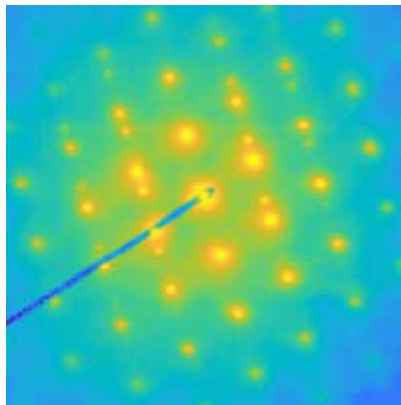


Session Program

17 June 2019



Novel Accelerators for Electron Diffraction ***Novel Accelerators for Electron Diffraction***

PSI, delivery LAB
Forschungsstrasse 111 5232 Villigen PSI Switzerland

Monday 17 June

09:00

Novel Accelerators for Electron Diffraction: Applications of Electron Diffraction

Session | **Location:** PSI, delivery LAB, Forschungsstrasse 111 5232 Villigen PSI Switzerland

09:00–09:15

Application of electron diffraction in biology

Speaker

Prof. Jan Pieter Abrahams

09:15–09:30

Electron diffraction: insulin, thermolysin and peptide

Speaker

Dominique HOUSET

09:30–09:45

Applications in chemical research

Speaker

Dr Bernd Hinrichsen

09:45–10:00

Discussion: What are the key parameters / figures of merit for the electron source?

Speaker

Rasmus Ischebeck

10:00

10:30

Novel Accelerators for Electron Diffraction: Electron Acceleration and Optics

Session | **Location:** PSI, delivery LAB, Forschungsstrasse 111 5232 Villigen PSI Switzerland

10:30–10:45

Electron diffraction experiments with a radio-frequency source

Speaker

Prof. Renkai Li

10:45–11:00

Simulation of THz acceleration

Speaker

Prof. Zoltan Tibai

11:00–11:15

THz acceleration

Speaker

Dr Nicholas Matlis

11:15–11:30

Discussion: How could these methods advance the field of electron diffraction?

Speaker

Dr Tatiana Latychevskaia

11:30

14:00

Novel Accelerators for Electron Diffraction: Enabling Technologies

Session | **Location:** PSI, delivery LAB, Forschungsstrasse 111 5232 Villigen PSI Switzerland

14:00–14:15

Hybrid Pixel Detectors

Speaker
Erik Fröjd

14:15–14:30 **Terahertz Sources**

Speaker
Dr Jozsef Fulop

14:30–14:45

Electron Diffraction: Crystallographic approach and its applications to organic molecules

Speakers
Gunther Steinfeld, Dr Gustavo Santiso-Quinones

14:45–15:00

The effect of manufacturing tolerances onto the functional specifications of charged particle equipment

Speaker
Mr Paul Blom

15:00–15:15 **Discussion: Key enabling technologies**

Speaker
Dr Jens Rehanek

15:15

15:45

Novel Accelerators for Electron Diffraction: Possible Applications of Next-Generation Instruments

Session | **Location:** PSI, delivery LAB, Forschungsstrasse 111 5232 Villigen PSI Switzerland

15:45–16:00 **Future applications in pharmaceutical research**

Speaker
Dr Frank Stowasser

16:00–16:30 **Discussion:**

Speakers
Klaus Sokolowski-Tinten, Rasmus Ischebeck

16:30