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4TU.HTM

Joint 4TU.HTM Workshop

Advanced in-situ methods for materials characterization

De Witte Vosch (Oudegracht 46, Utrecht), Friday 29 November 2024

Confirmed invited speakers

- Marnix Wagemaker (TUD)
- Beatriz Noheda (RUG)
- Petra de Jongh (UU)
- Chris Baeumer (UT)
- Wiebke Albrecht (Amolf)

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Scope of the workshop

Structural characterization of materials down to the atomic scale is essential for understanding properties and performances of materials. The holy grail is to perform at the same time advanced structural and property characterization under realistic dynamic conditions. Recent technological advancements now allow us approaching this holy grail.

In the present (afternoon) workshop the main focus is on the use of structural probes based on electrons, X-rays (lab-based or synchrotron) and neutrons and then perform in-situ or operando dynamical experiments. This for instance allows atomic resolution imaging of nanoscale electronic devices subjected to electrical fields, light driven processes monitored inside the electron microscope, nanoscale catalysts interacting with gases and liquids and operando studies of battery materials.



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Preliminary Programme

12.00	Walk-in and lunch
12.50 - 13.00	Welcome and introduction Prof.dr.ir. Arjan Mol, Scientific Director 4TU.HTM, TU Delft (ME, MSE)
	<u>Chair: Bart Kooi (RUG)</u>
13.00 – 13.25 (20 + 5 min)	<u>Marnix Wagemaker</u> – Delft University of Technology Title: t.b.d.
13.25 – 13.40 (12 + 3 min)	Contributed talk Title: t.b.d.
13.40 – 14.05 (20 + 5 min)	<u>Beatriz Noheda</u> – University of Groningen Title: t.b.d.
14.05 – 14.20 (12 + 3 min)	Contributed talk Title: t.b.d.
14.20 – 14.35 (12 + 3 min)	Contributed talk Title: t.b.d.
14.35 – 15.00	Break
	<u>Chair: Gertjan Koster (UT)</u>
15.00 – 15.25 (20 + 5 min)	<u>Wiebke Albrecht</u> – Amolf, Amsterdam Title: t.b.d.
15.25 – 15.40 (12 + 3 min)	Contributed talk Title: t.b.d.
15.40 – 16.05 (20 + 5 min)	<u>Chris Baeumer</u> – University of Twente Title: t.b.d.
16.05 – 16.30 (20 + 5 min)	<u>Petra de Jongh</u> – Utrecht University Title: t.b.d.
16.30	Closure, drinks & bites