

Perovskite Workshop in Lund 2023 Program

Day 1: Wednesday, 10th of May

Lecture hall D

9:55 **Welcome**

Ivan Scheblykin, Chemical Physics, Lund University

10:00 **Presentation 1. Eva Unger**

20 Experimental evidence that light-induced defects causing meta-stability effects in halide
20 perovskite semiconductors.

10:40 **Presentation 2. Peter Bobbert**

20 Thermodynamic theory for light-induced halide segregation in mixed halide perovskites
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20 11:20 **Coffee Break + posters (20 min)**

11:40 **Presentation 3. Juan Galisteo**

20 Iodide Nanodomain Formation in Mixed Halide Perovskites:
20 Let's Discuss on the Role of Defects

12:20 **Presentation 4. Feng Gao**

20 Phase segregation in blue LEDs based on mixed halide perovskites
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13:00 **Lunch. Bryggan café.**

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Lecture hall F

14:00 **Presentation 5. Rebecca Belisle**

20 The relationship between defects and phase segregation
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14:40 **Presentation 6. Masaru Kuno**

20 A band gap model for mixed-halide photo segregation
20

20 15:20 **Coffee Break + posters (40 min)**

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16:20 **Presentation 7. Paul McIntyre**

20 Halide ion demixing during illumination of highly crystalline CsPbBr₃(1-x)I_x thin films: A
20 combined cryo-EM, cathodoluminescence and phase field modelling study.

17:00 **Presentation 8. Michael Toney**


20 Perovskite lattice dynamics and the influence on halide diffusion
20

19:00 **Dinner at Hos Talevski i Stadsparken (40 min walking distance from Elit Hotel Ideon)**


Day 2: Thursday, 11th of May

Lecture hall D

10:00 Presentation 9. Thomas Kirchartz

20  Shallow Defects and Long Charge-Carrier Lifetimes in Lead-Halide Perovskites


10:40 Presentation 10. Dinesh Kabra

20  White light emission in low dimensional halide perovskites: Self-
20 trapped Excitons (STE) vs Local Molecular triplets


11:20 Coffee Break + posters (60 min)

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12:20 Presentation 11. Igal Levine


20  Bridging the gap between optical and electrical characterization of Halide Perovskites using
20 highly sensitive opto-electronic contactless characterization

13:00 Lunch. Bryggan café.


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Lecture hall A

14:00 Presentation 12. Monojit Bag

20  Halide perovskite materials beyond the photovoltaic applications: A
20 tale of iontronics in energy storage and memory devices.


14:40 Presentation 13. Thomas Unold

20  Inferring transport properties from transient-optical methods


15:20 Coffee Break + posters (60 min)

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16:20 Presentation 14. Arindam Chowdhuri

20  Spatiotemporal Correlations in Optical Instabilities of Hybrid Halide Perovskite Microcrystals

17:00 Presentation 15. Ivan Scheblykin

20  Photosensitivity of metal halide perovskite semiconductors is a nightmare for laser
20 spectroscopists. Does spectroscopy have any chance to tell us the “truth”?