

# Nordic Nanolab Network Webinar

## Maskless Aligner Systems (MLA)

10 – 11 May 2021

*Preliminary agenda – please save the dates!*

The Nordic Nanolab Network invites all users to its first topical webinar with four tutorials on maskless aligner systems

### MONDAY 10 MAY: 09:00 – 10:00: BASIC OPERATION OF MLA TOOLS

Chair Leif S. Johanse DTU Nanolab. Presenter: Jens Hemmingsen DTU Nanolab

- Principle of operation
- From design to pattern
- Alignment modes

10:00 – 10:30 DISCUSSION ROOMS

### 10:30 – 11:30: ADVANCED FEATURES AND POSSIBILITIES OF MLA TOOLS

Chair Leif S. Johansen DTU Nanolab. Presenter: Jens Hemmingsen DTU Nanolab

- Advantages/limitations: Conversion PC, write modes, high aspect ratio (add-on features)
- Tradeoffs during specification and purchasing
- Optical proximity correction (OPC) using Beamer.

11:30 – 12:00 DISCUSSION ROOMS

### TUESDAY 11 MAY: 09:00 – 10:00: GREY SCALE LITHOGRAPHY

Chair Peter Köllensperger NorFab NTNU. Presenter Jens Høvik, NorFab NTNU

- Fundamental grey scale lithography
- “Mask” preparation
- Grey scale lithography on MLA 100 and 150
- Post processing: reflow etc.

10:00 – 10:30 DISCUSSION ROOMS

### 10:30 – 11:30: BEYOND MLA

Chair, Ivan Maximov Myfab Lund

- Block copolymer, BCP, Presenter Ivan Maximov Myfab Lund
- Displacement Talbot Lithography, DTL. Presenter Sarah McKibbin, Myfab Lund
- Adhesion lithography. Presenter Sihai Luo, NorFab NTNU
- Cross exposure with dipole illumination using DUV stepper. Presenter Matthias Keil, DTU Nanolab

11:30 – 12:00 DISCUSSION ROOMS