

# Projekt 2: Leica og SEM-grids

Af Anne og Gabriel

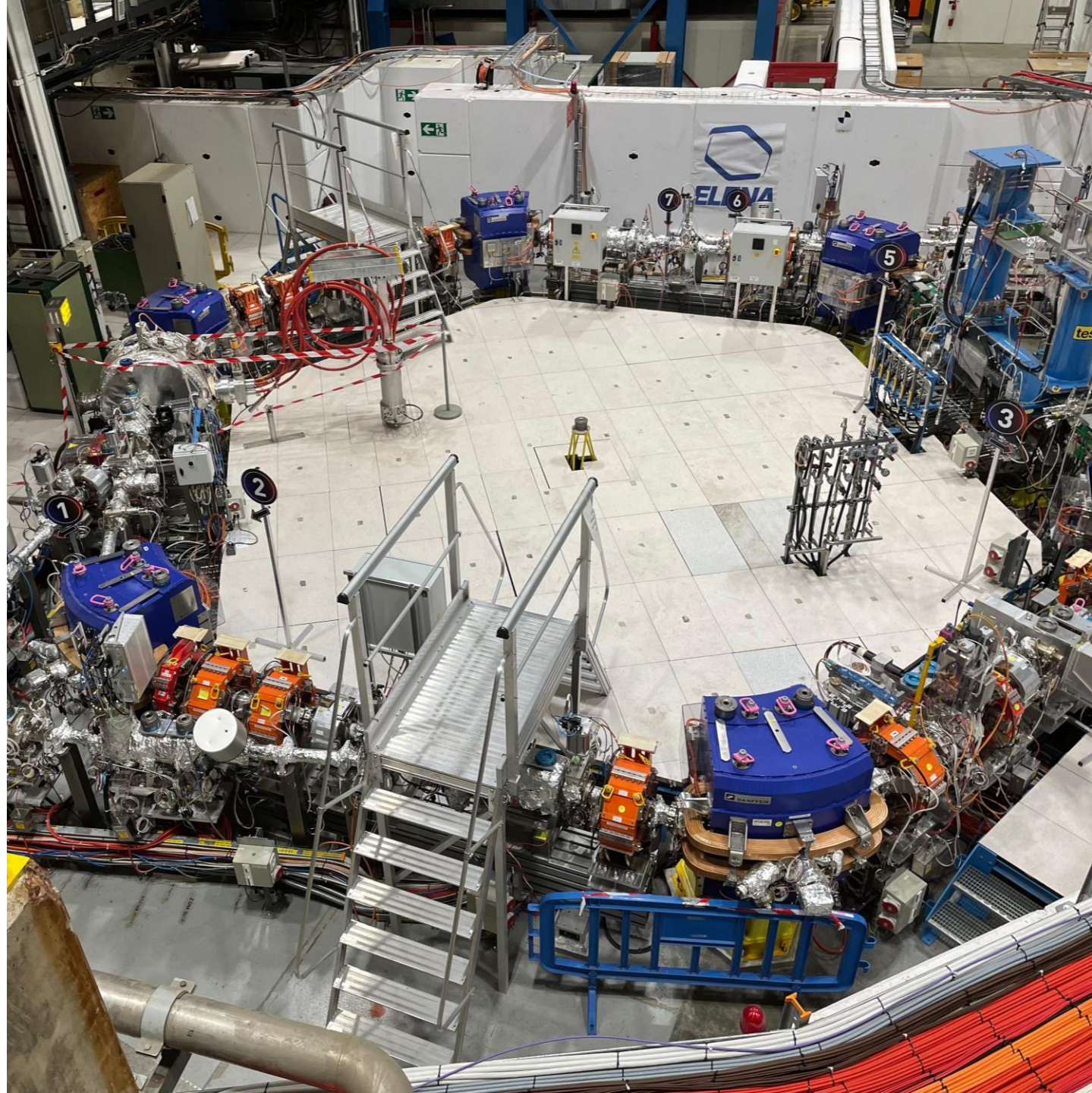
With thanks to Wilfried Devauchelle, Mark Mclean, James Storey and everyone else we met in XEI.

# Afdeling

- Accelerator Systems Department → Beam Instrumentation → Experimental Areas, e-Beam, Ion Monitors Section (SY-BI-XEI)
- Bl.a. elektronkølere og beam-profil hos AD og LEIR
- BPM til ELENA

# Projekt

- *”Project is to set up and test a new Leica digital binocular microscope test-station – which will be used for the inspection of beam instrumentation equipment.”*
- SEM-grids i ELENA
- Raspberry Pi: Timing Generator uafhængig af CERN-tid



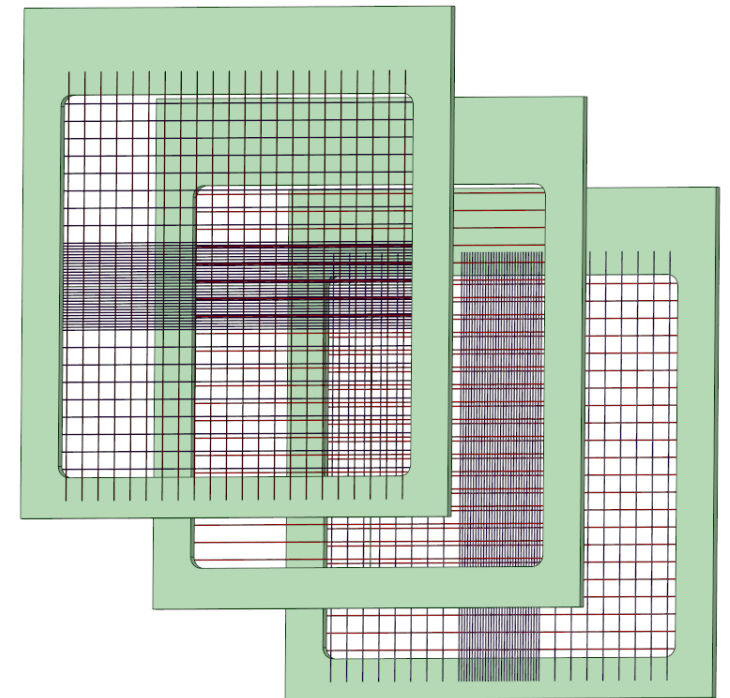
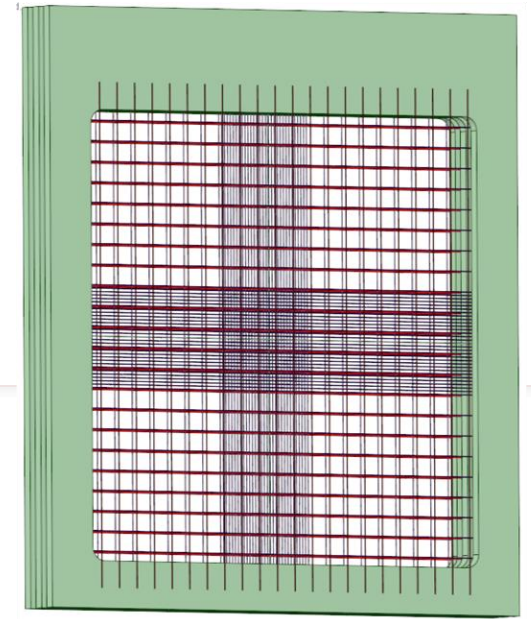
# Leica-mikroskop

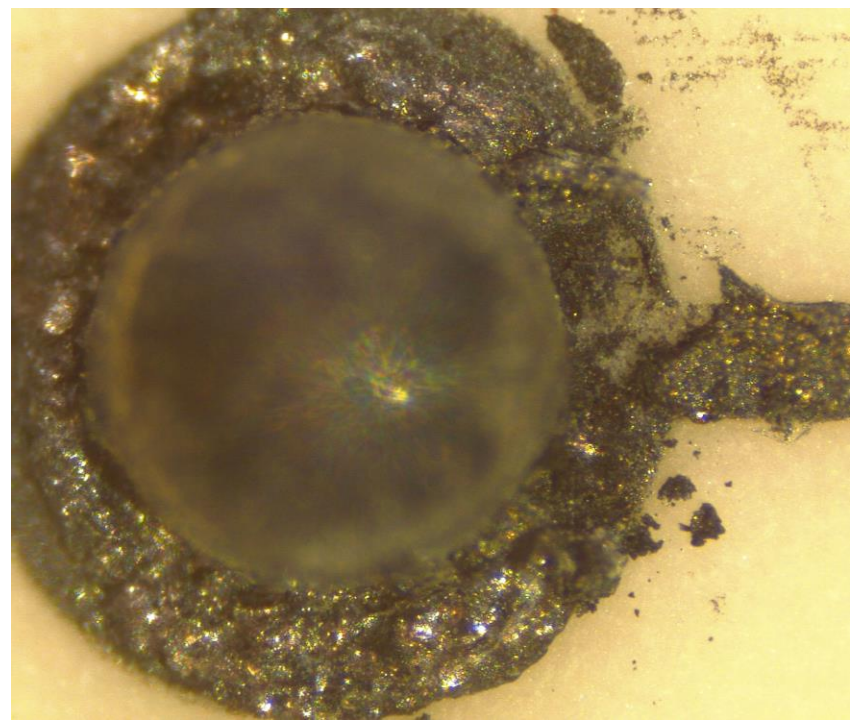
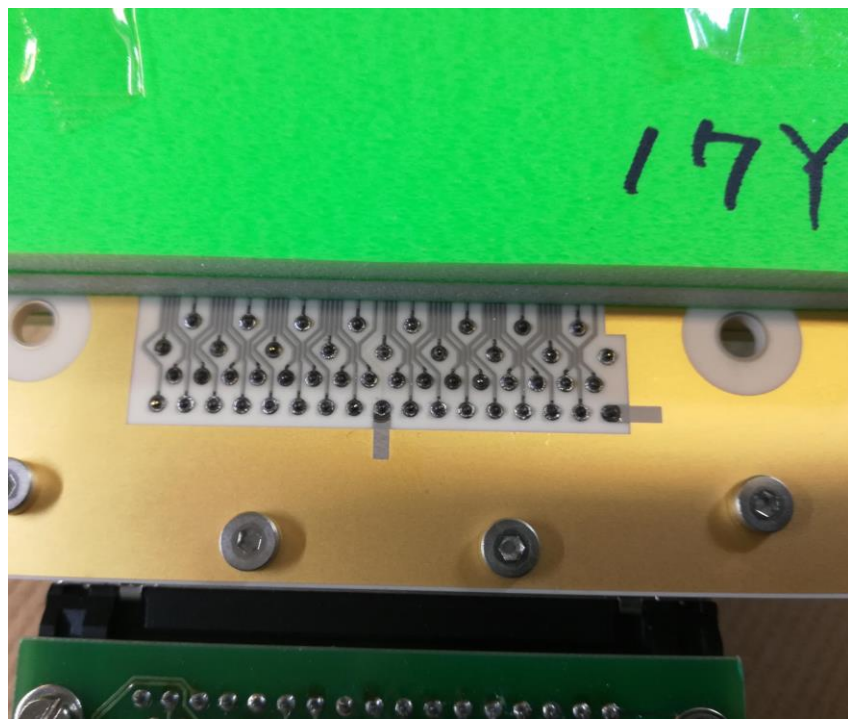
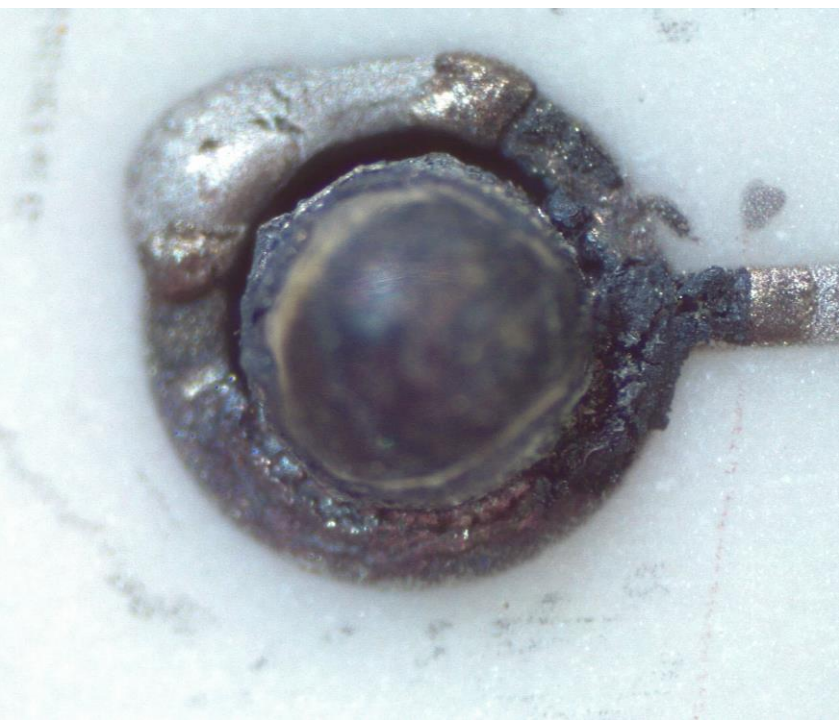
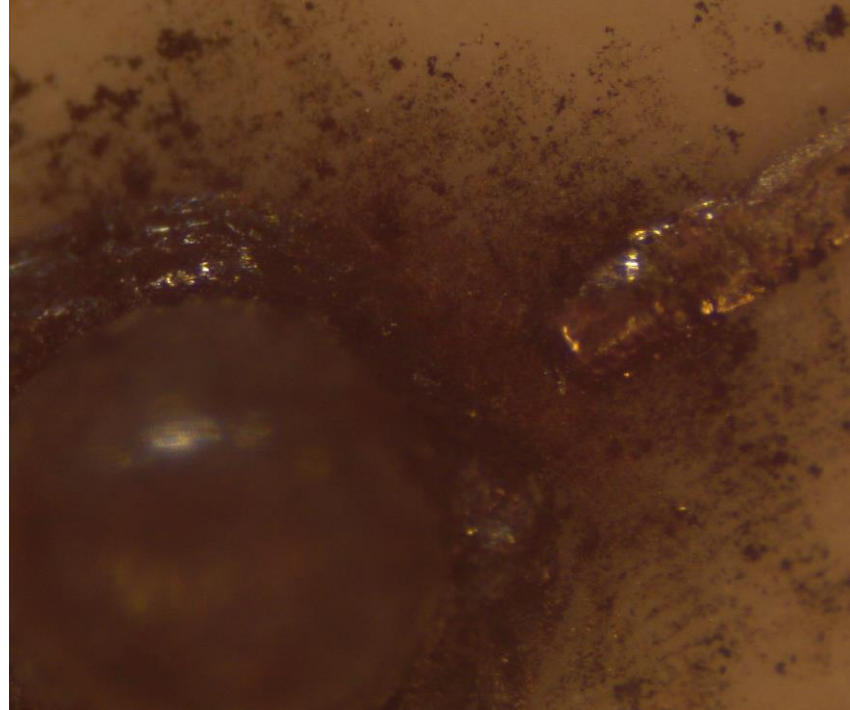
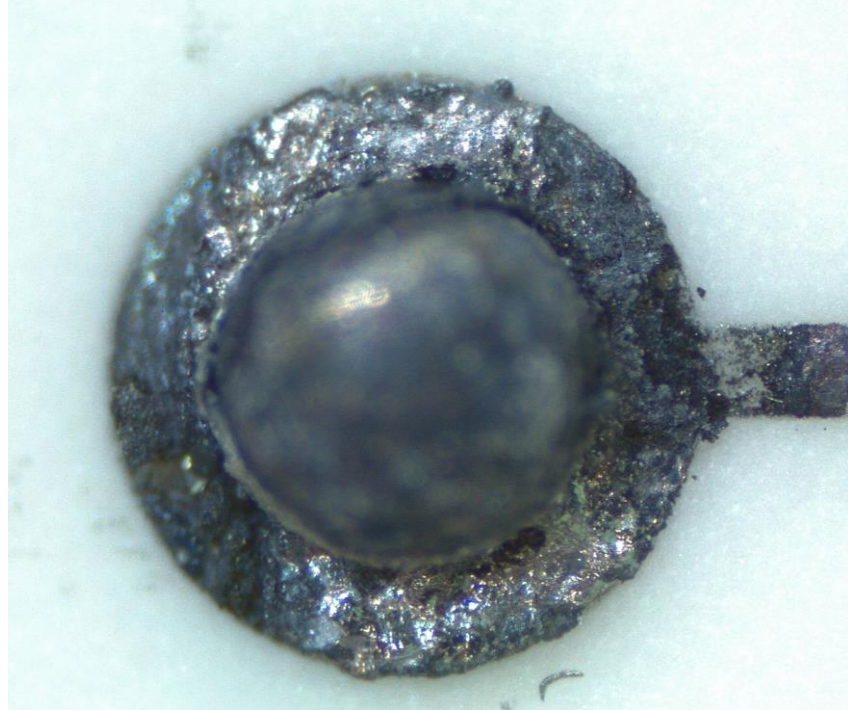
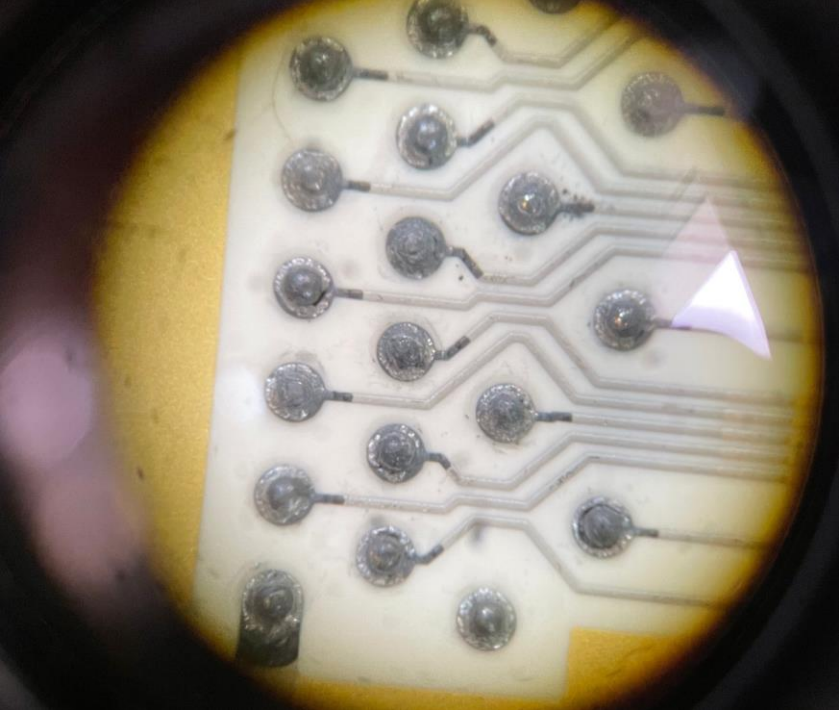
- Brug og software
- Undersøge SEM-grids



# SEM-grids

- Opbygning og virkemåde
- 10% absorberes
- Problem: Lodninger
- Impedans- og kredsløbstjek og undersøgelse med mikroskop
- Korrosion, forbindelse til pin, eksplosion!  
→ Hvorfor?







## Raspberry Pi

- Timing Generator Box
- Output-kanaler
- Fem signaler – Pythonkode
- Oscilloskop



Tak til Anders

