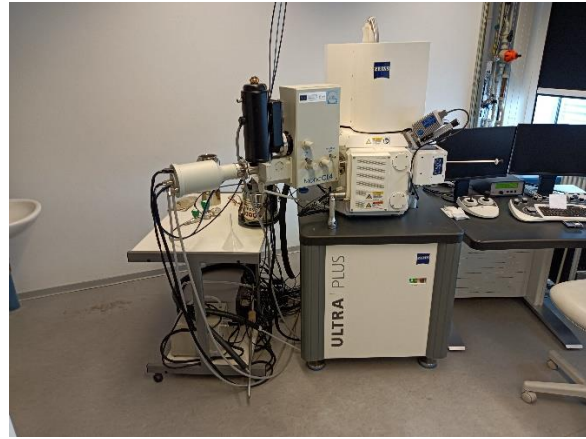


Photos of the current SEM system with detector positions

Date: 19.07.2025

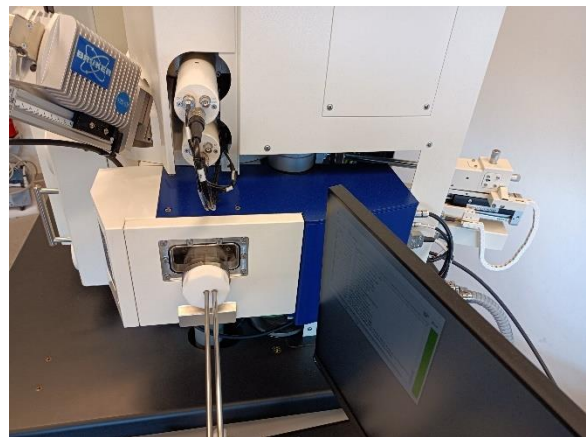
SEM Zeiss ULTRA Plus:



SEM overview for spacing



Front side SEM:
Left: Old CL system
Right: EDX and airlock



Right side SEM:
Left: EDX
Middle: Airlock, EM lenses
Right: Retractable BSD

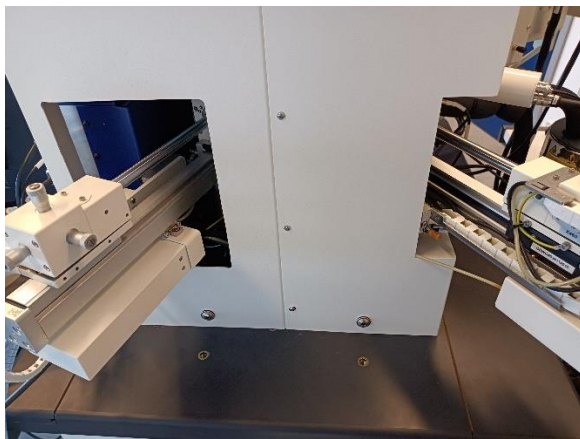


Left side SEM:

Left: Retractable charge compensation

Middle: Intern CL detector, secondary HE-SE detector, lead-through for sample cooling

Right: Old CL system



Back side SEM:

Left: Retractable BSD

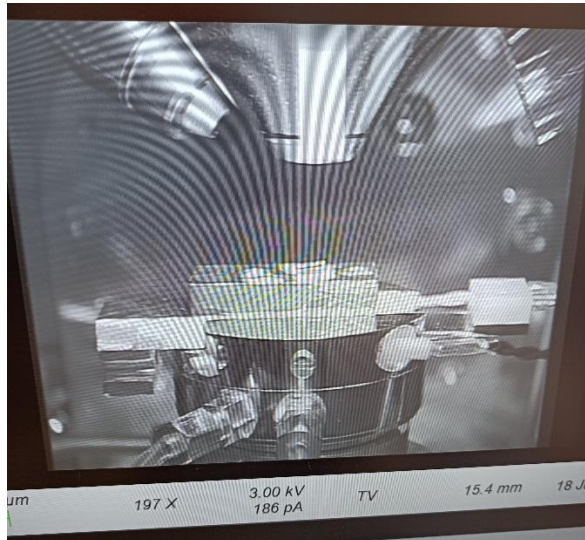
Right: Retractable charge compensation

Chamber (photos taken from chamber back side):



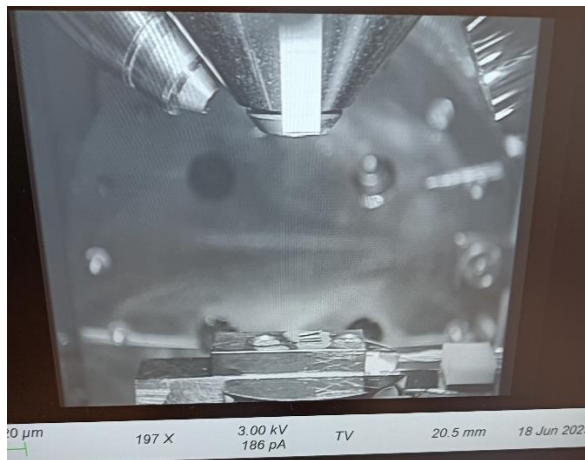
Cooling stage with standard sample holder:

- Left: EDX detector (will be replaced in July/August 2025)
- Right: Internal CL detector
- Top: Objective lens
- Working distance: 7.8 mm



Cooling stage with standard sample holder:

- Working distance: 15.4 mm



Cooling stage with standard sample holder:

- Maximum distance: ca. 34 mm