

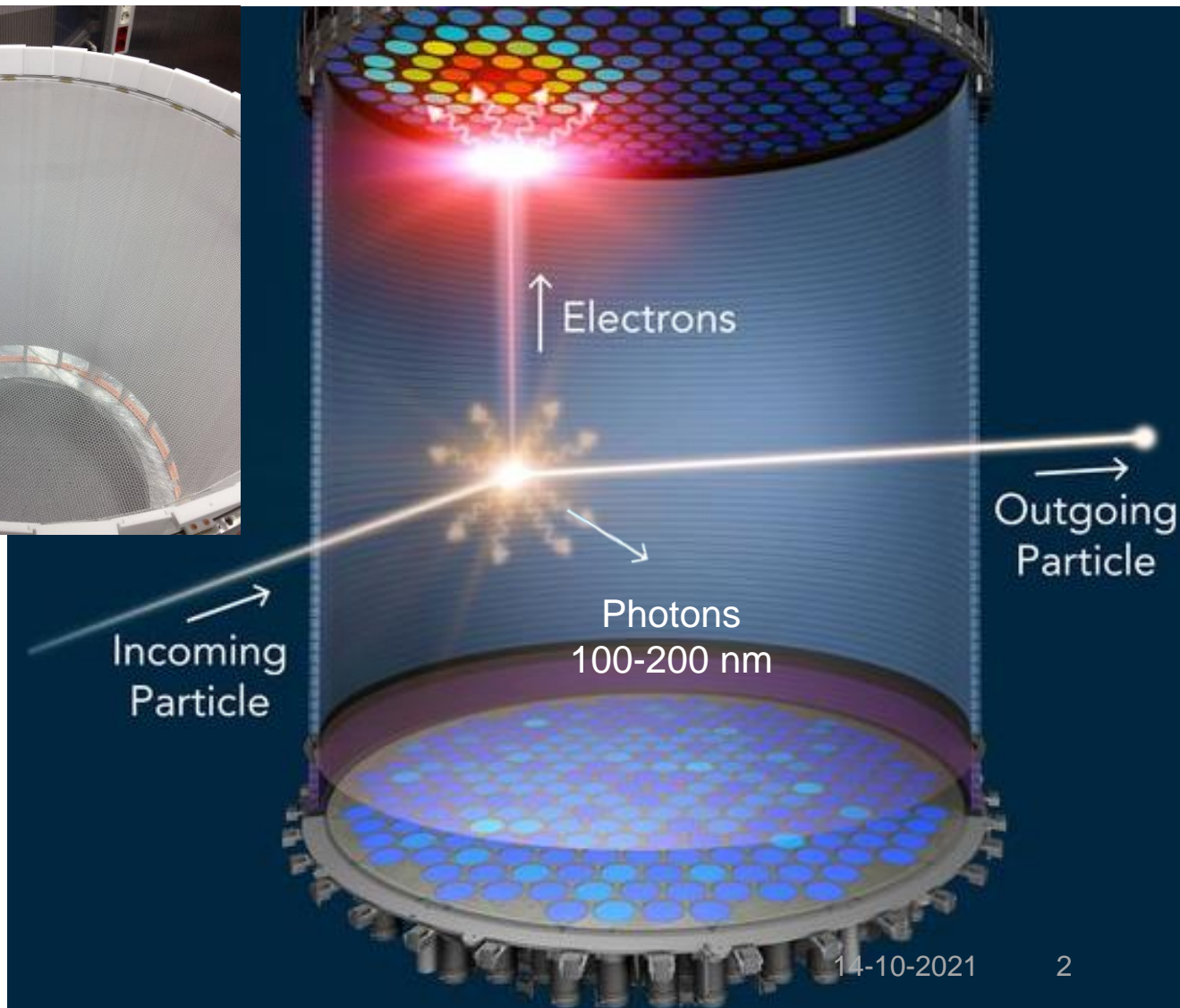
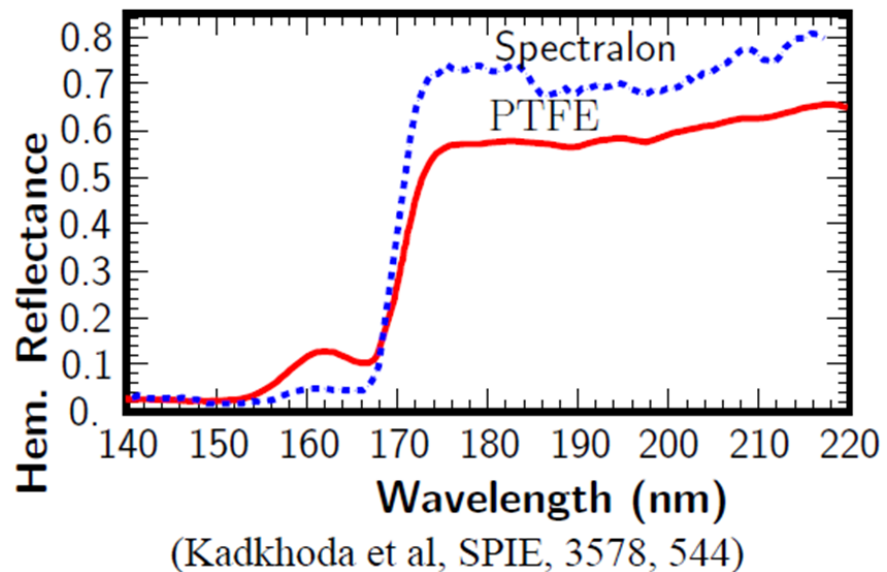
Progress of the VUV setup

Casimir van der Post

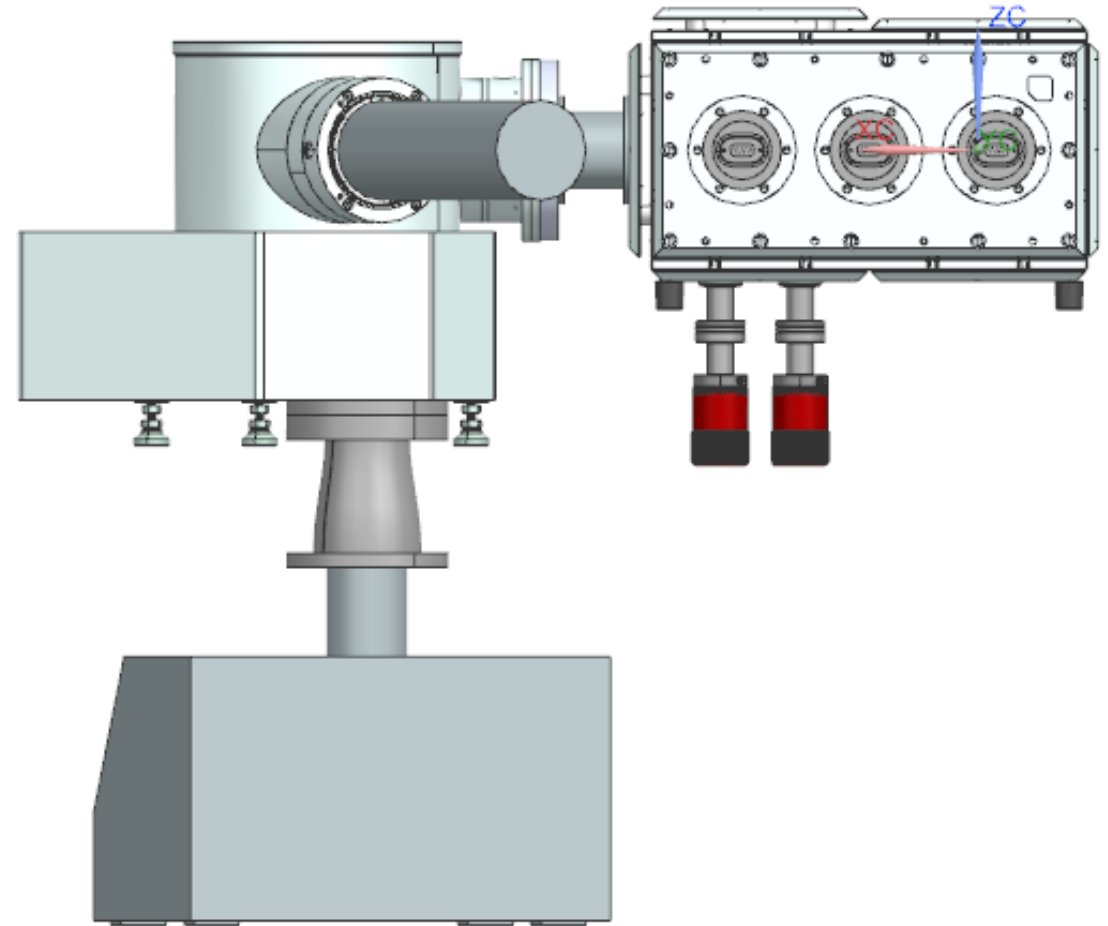
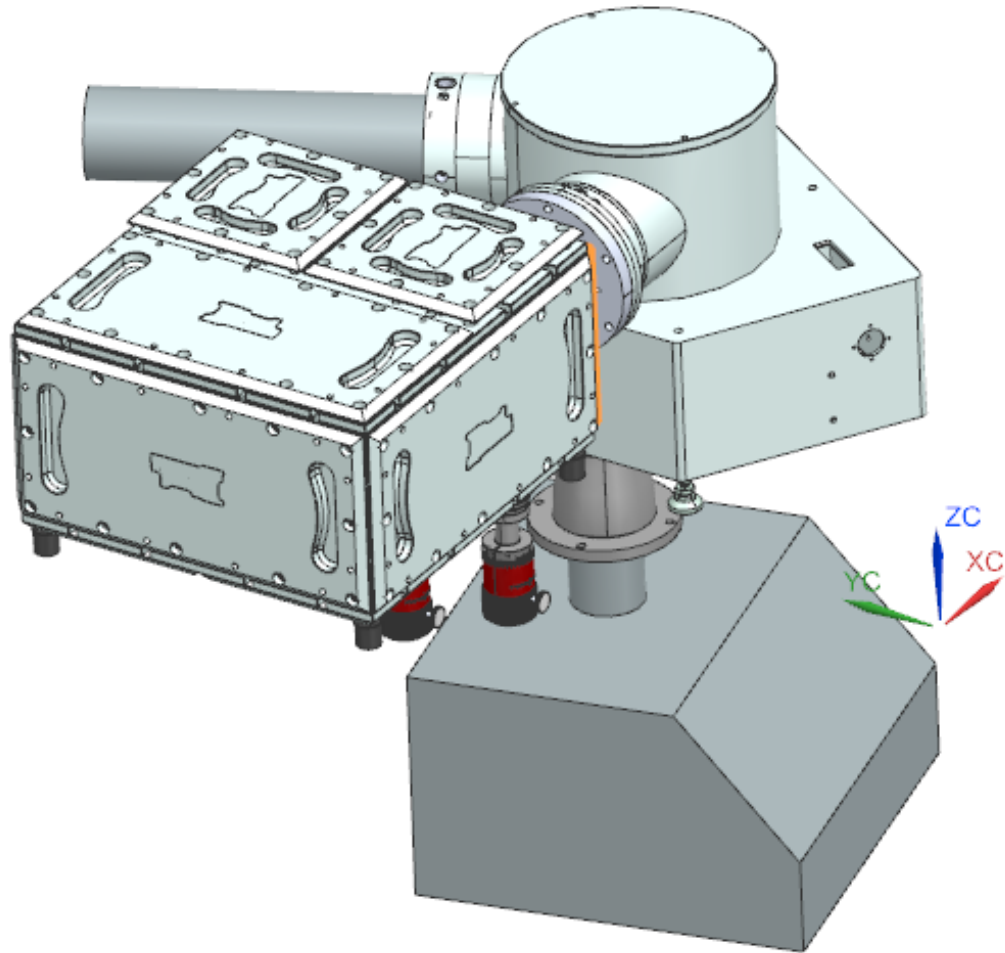
 **TU**Delft

Nik|hef

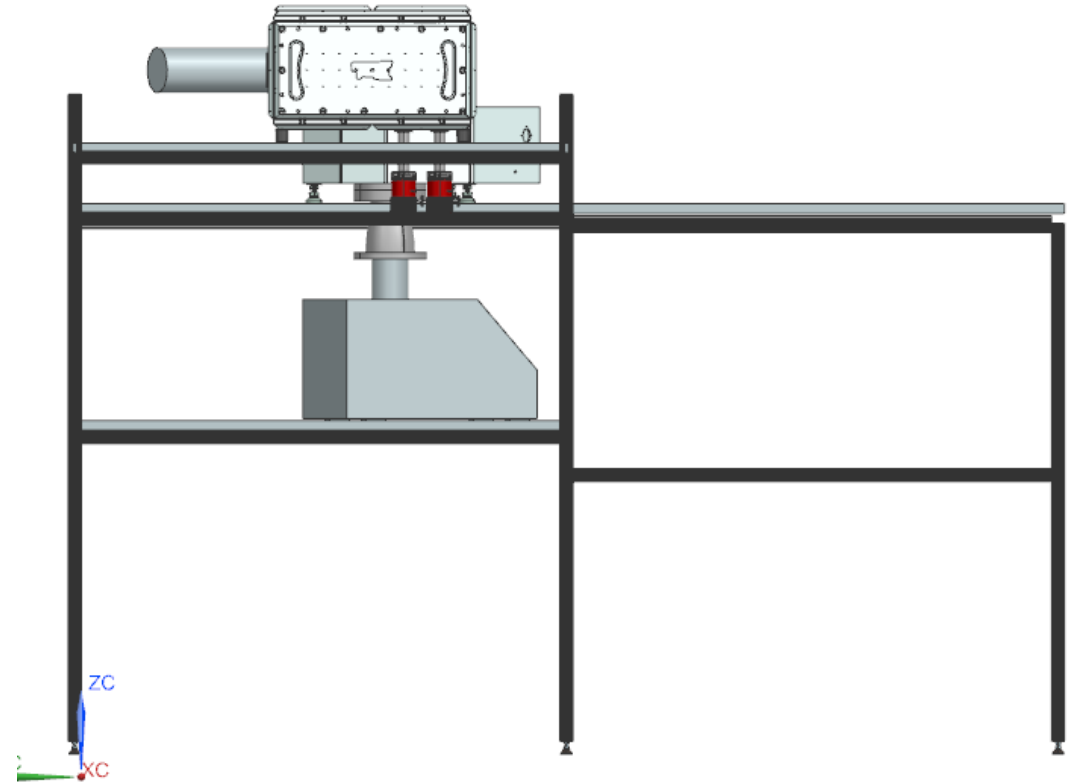
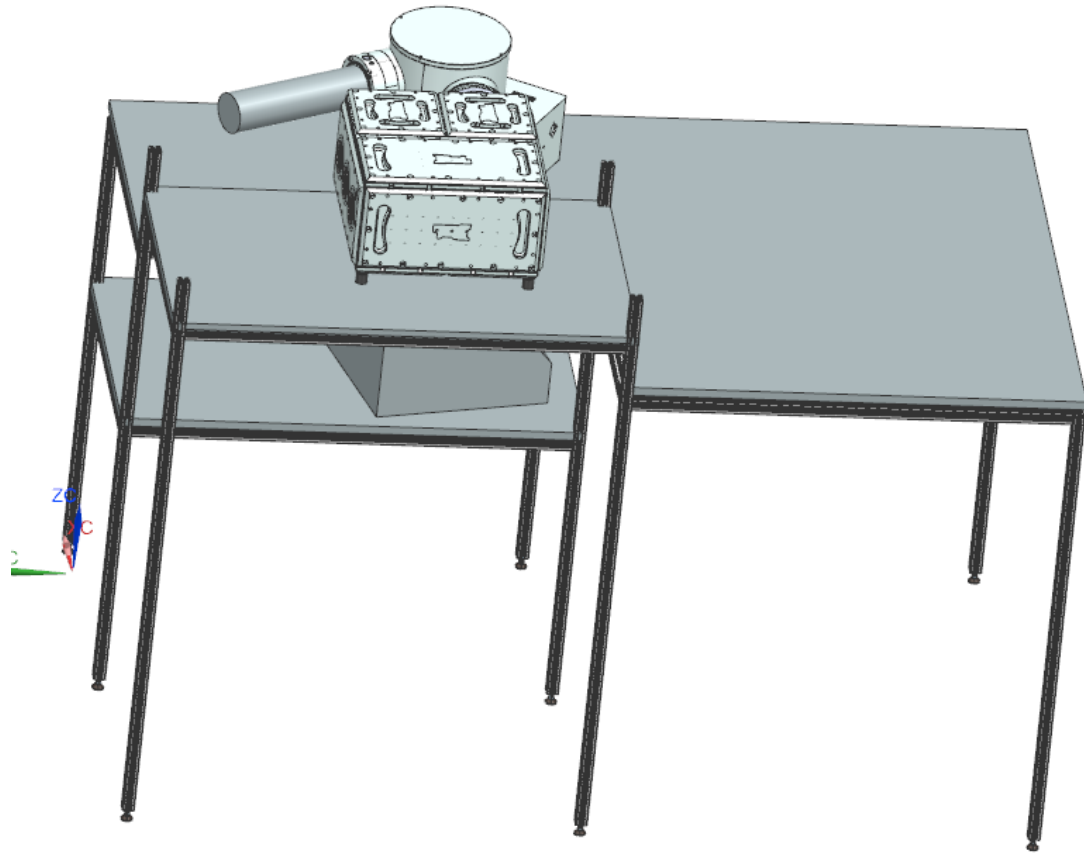
Why investigate the optical properties, and what makes it complex



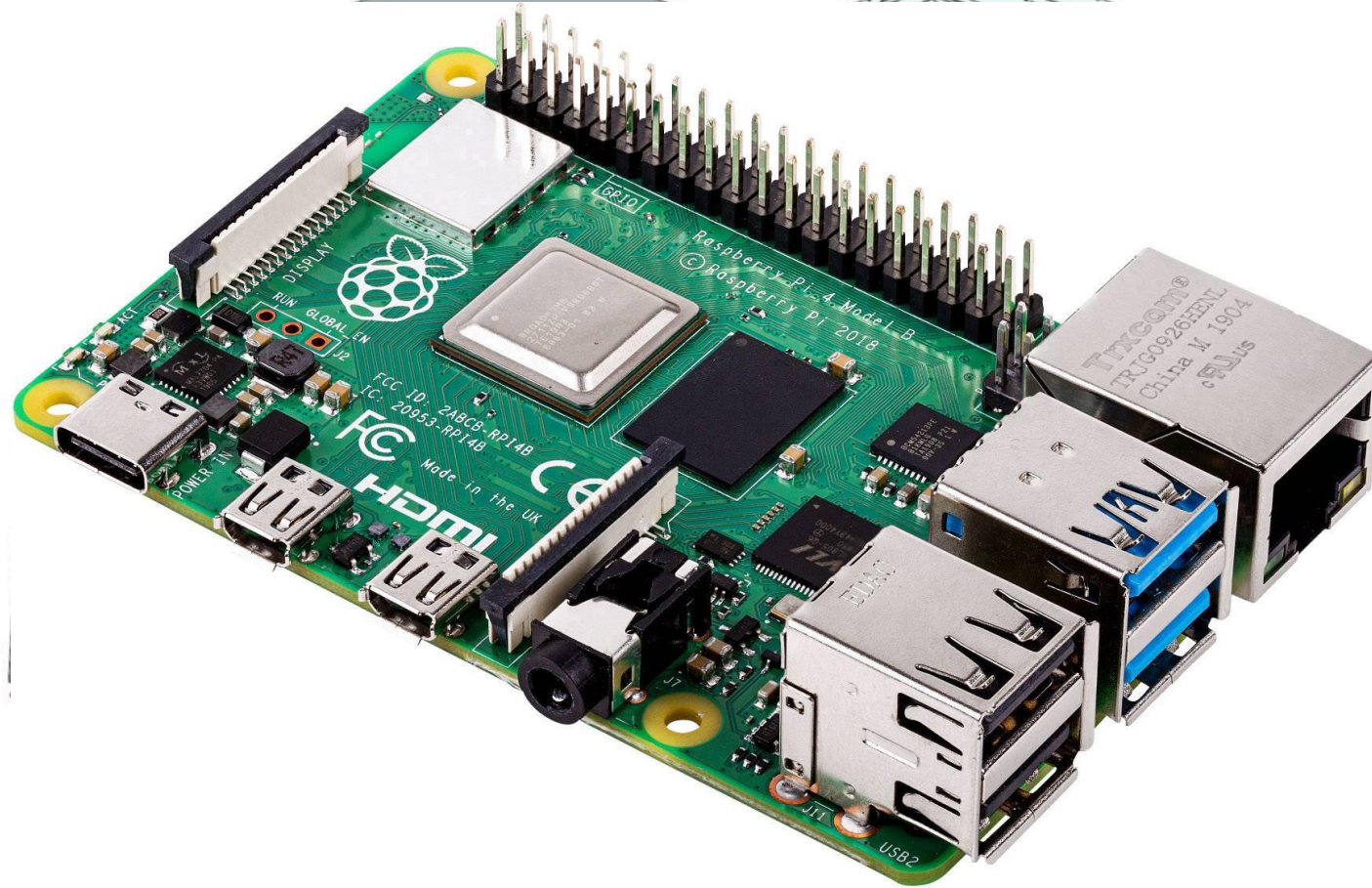
What the design looks like



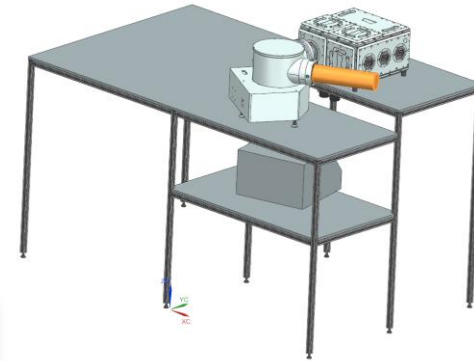
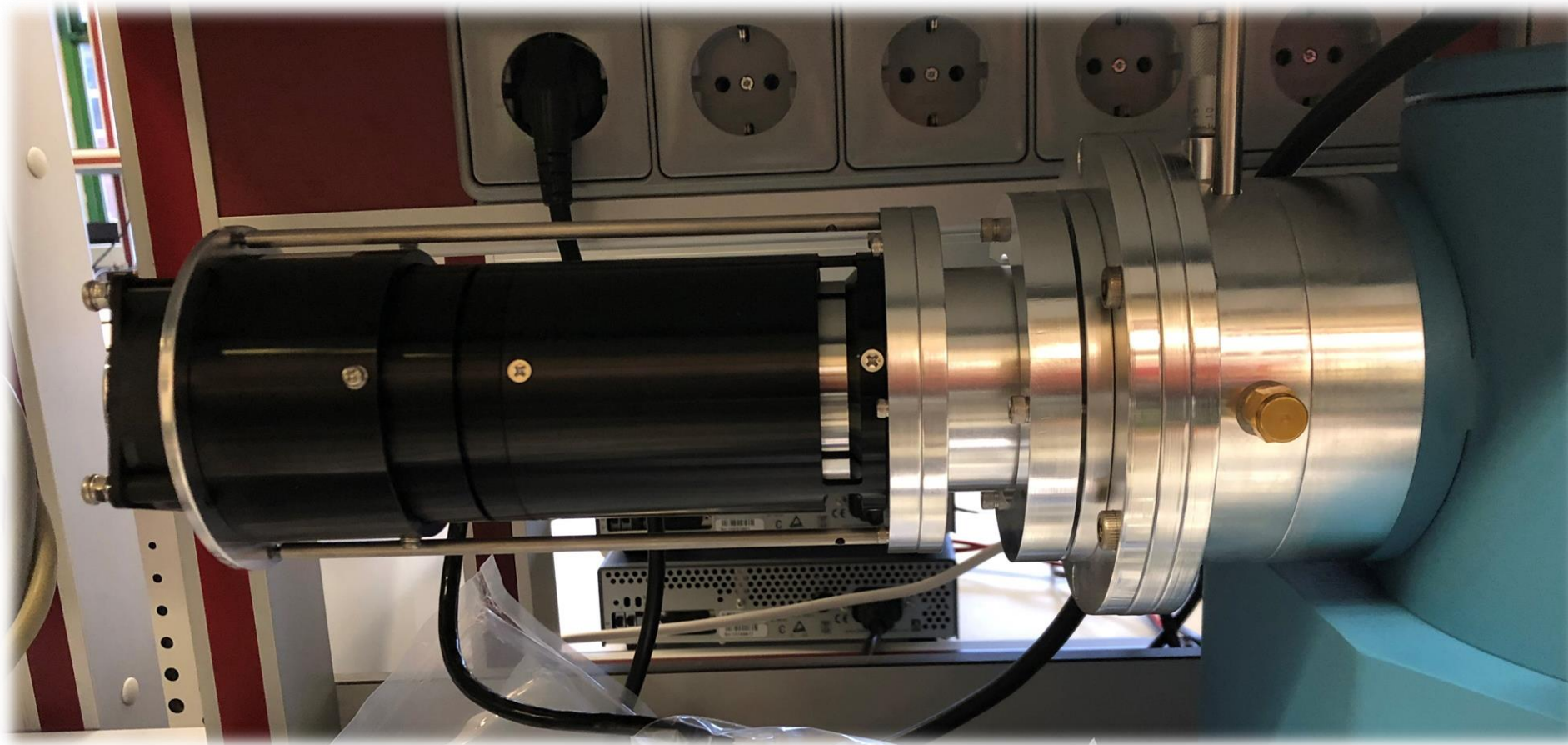
CAD drawing of the complete VUV experiment with the modular table



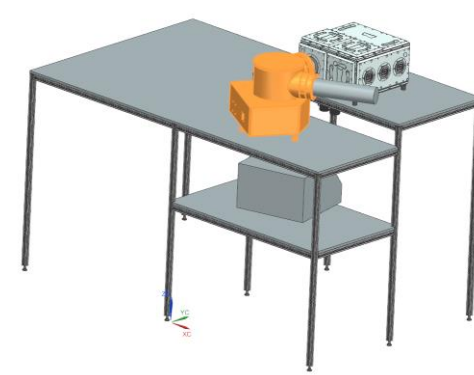
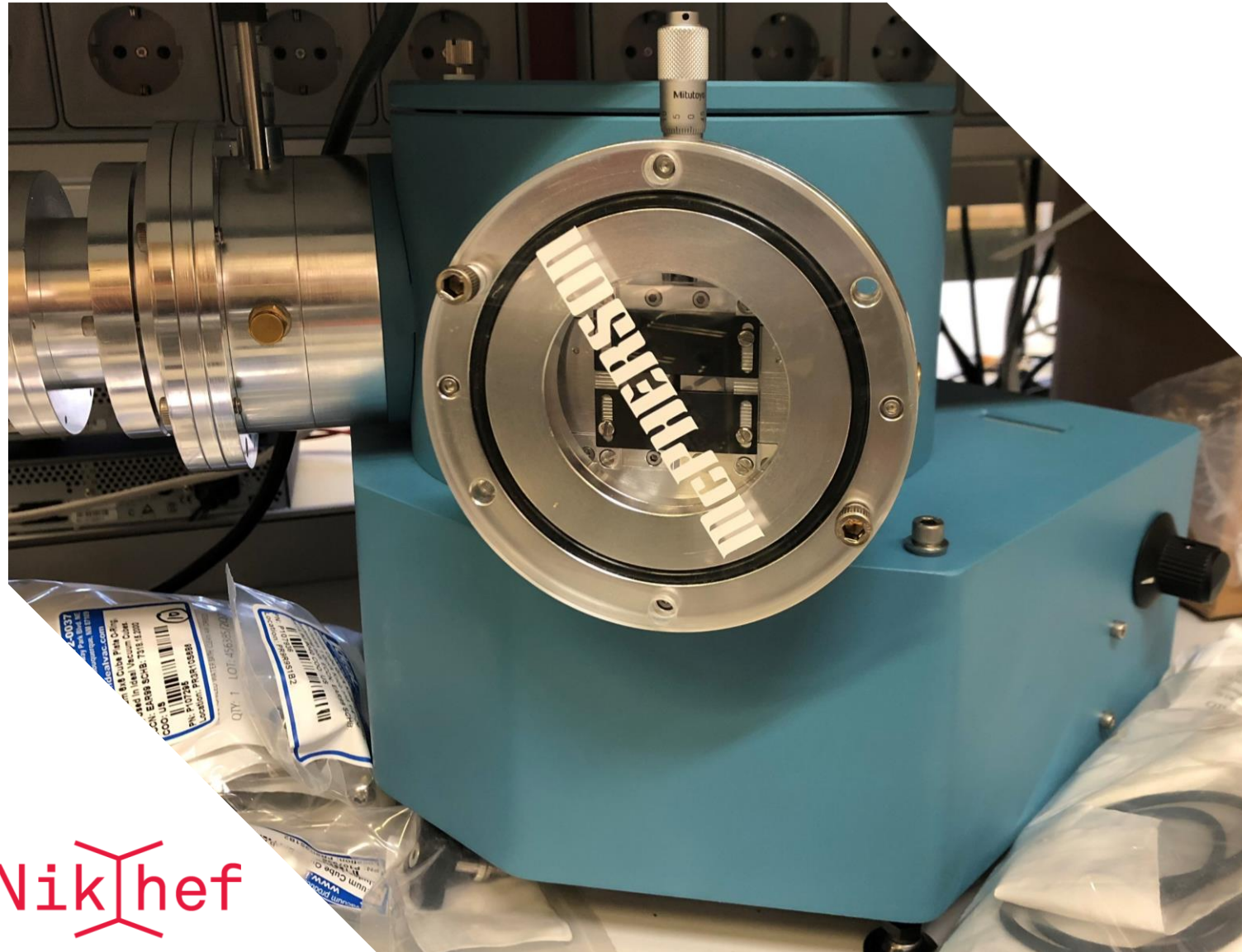
Presentation outline



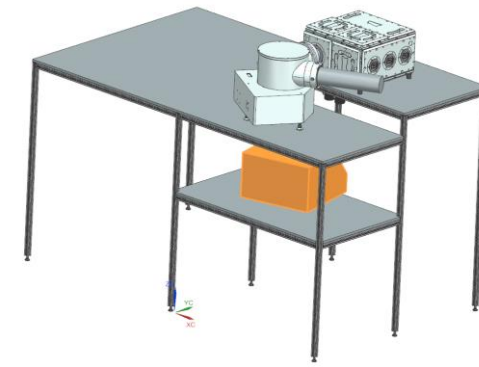
The deuterium lamp (Hamamatsu L15094)



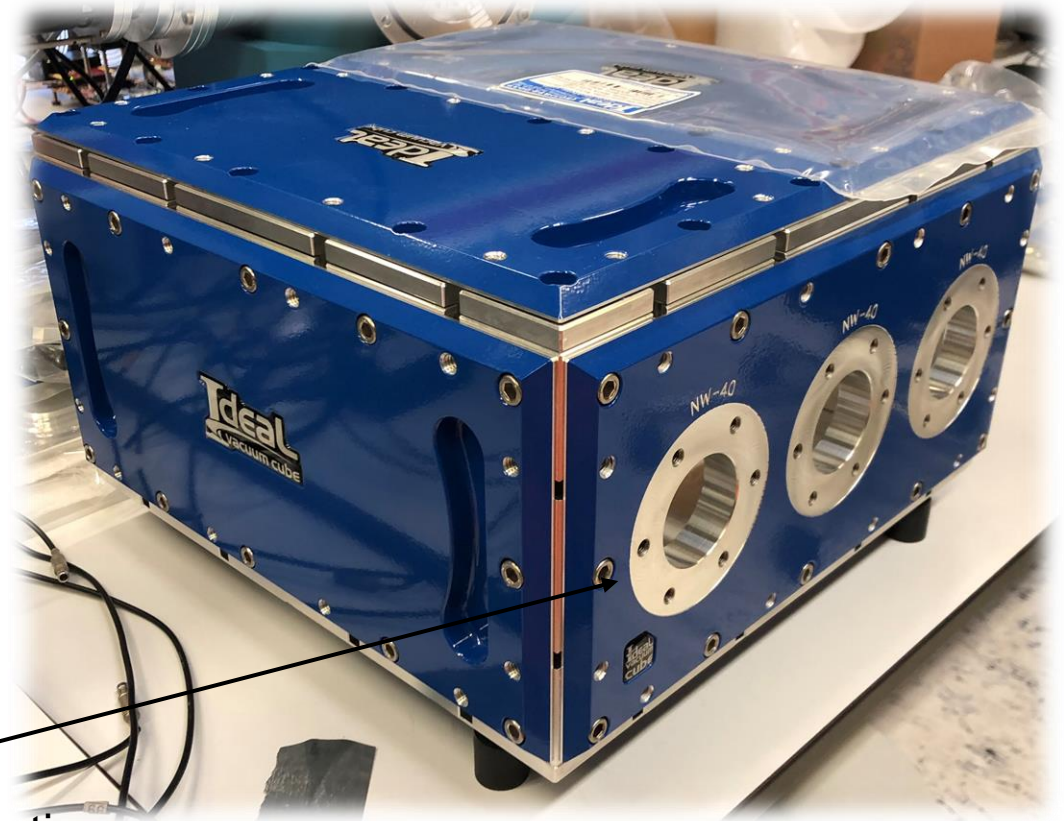
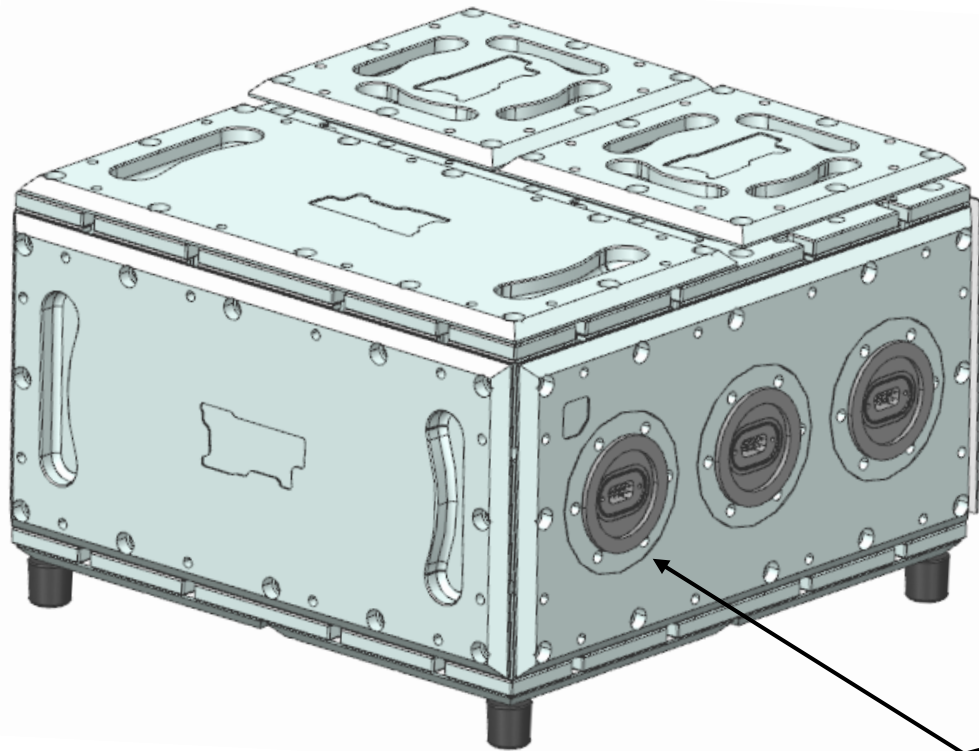
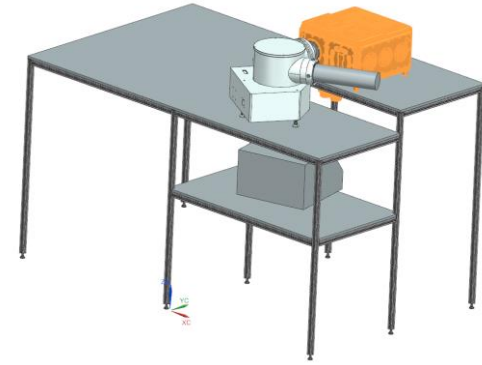
The Monochromator (McPherson 234-302)



Vacuum station Pfeiffer HiCube 80 Eco

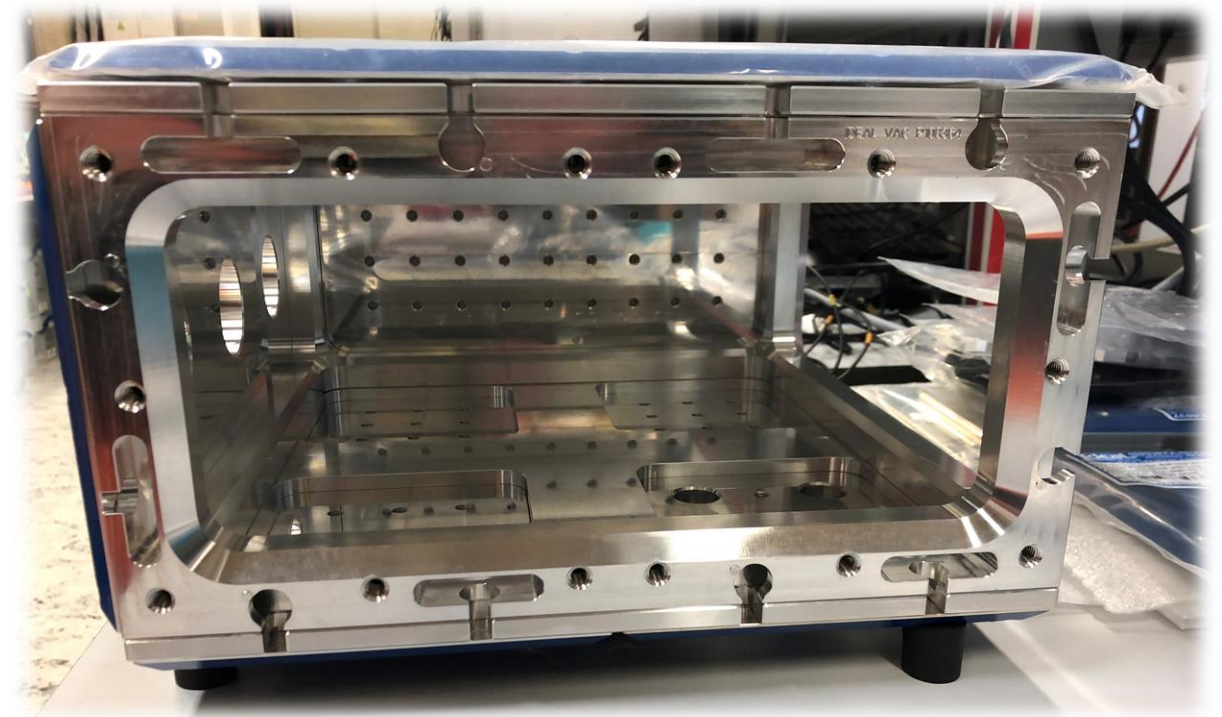
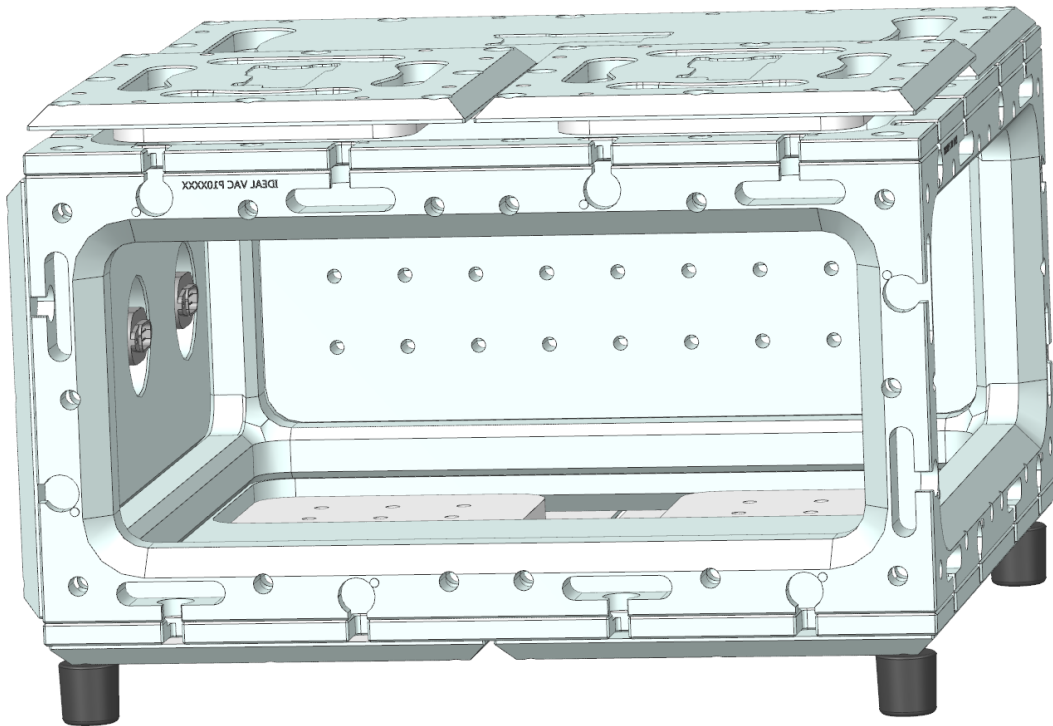
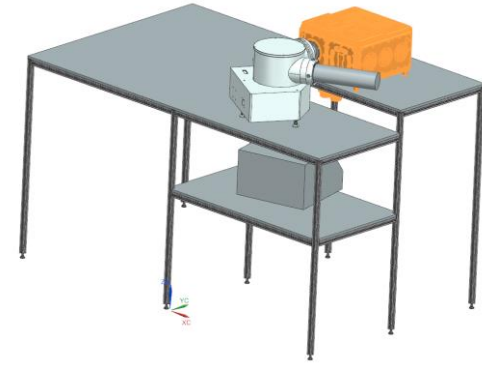


The Vacuum Chamber

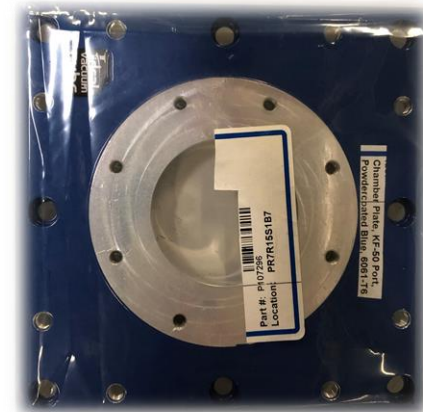
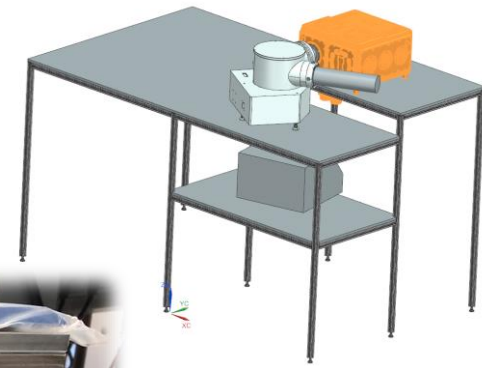
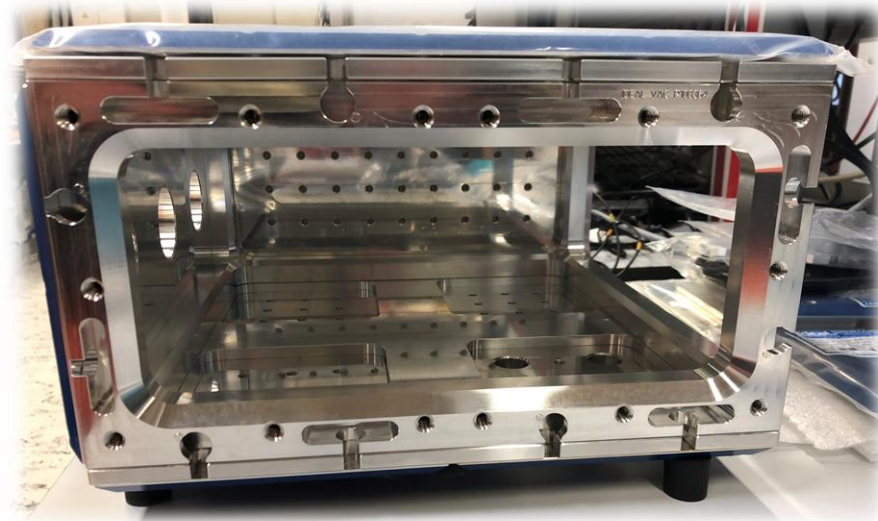
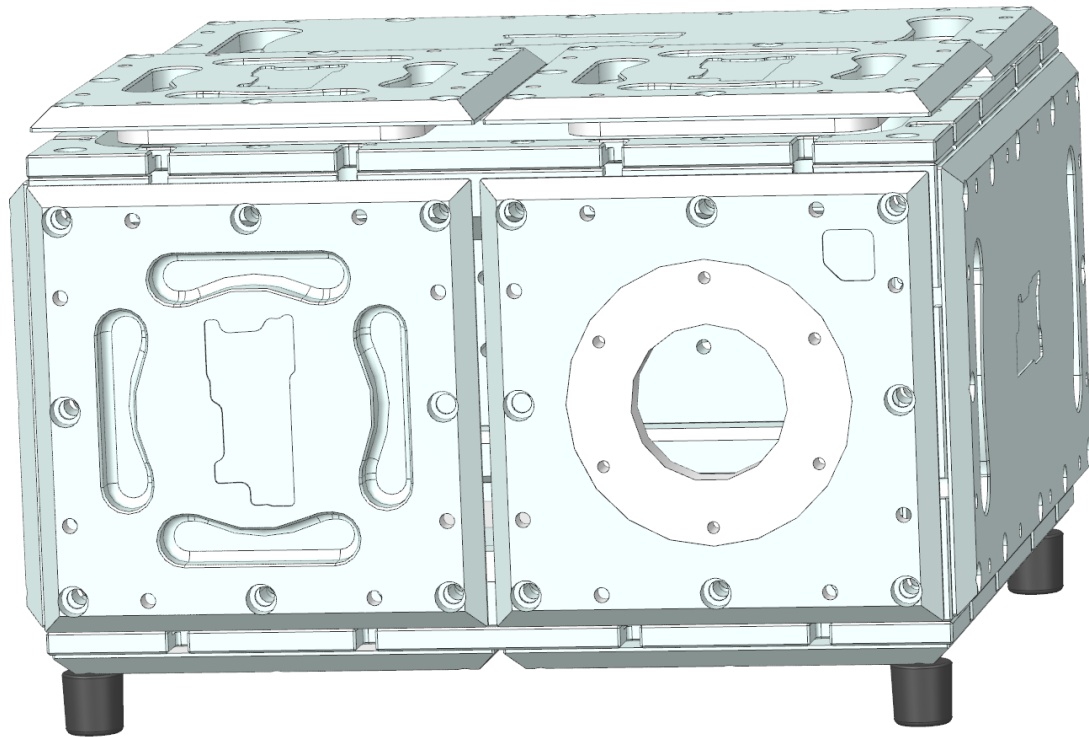


NW-40 9 pin Dsub connections

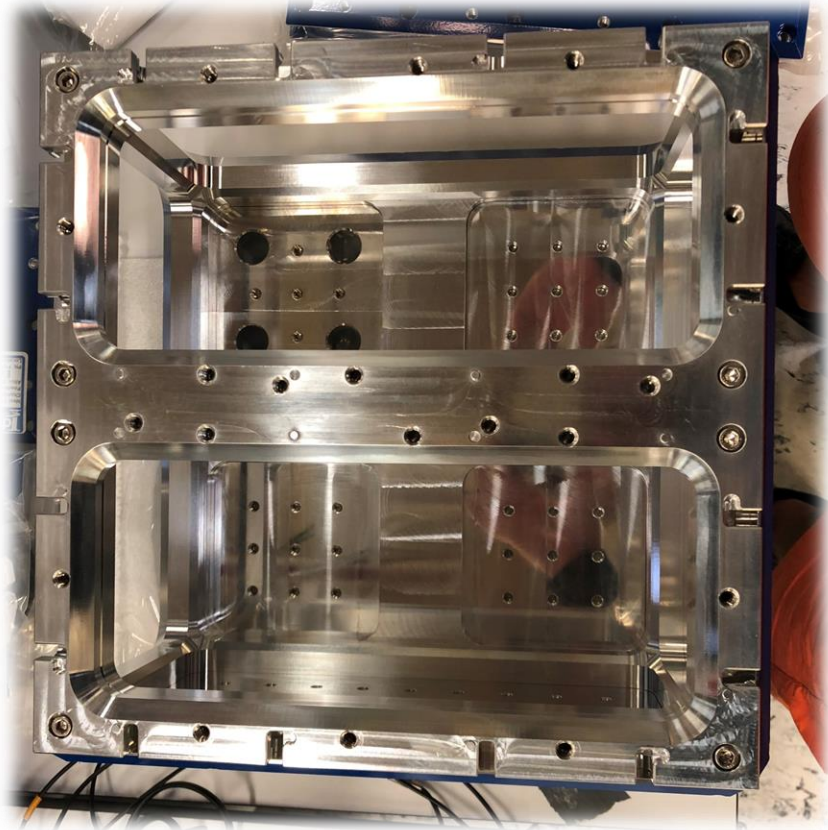
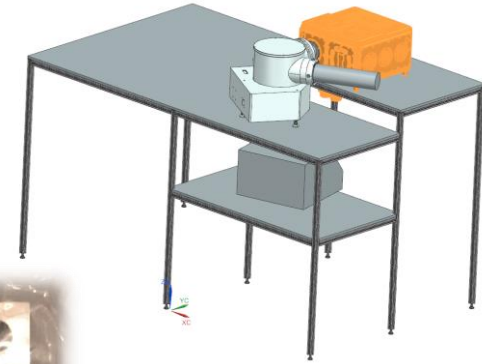
The Vacuum Chamber



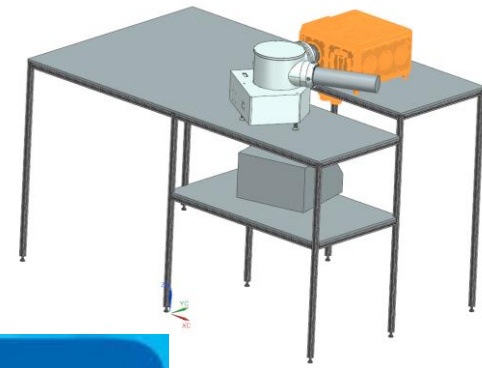
The Vacuum Chamber



The Vacuum Chamber

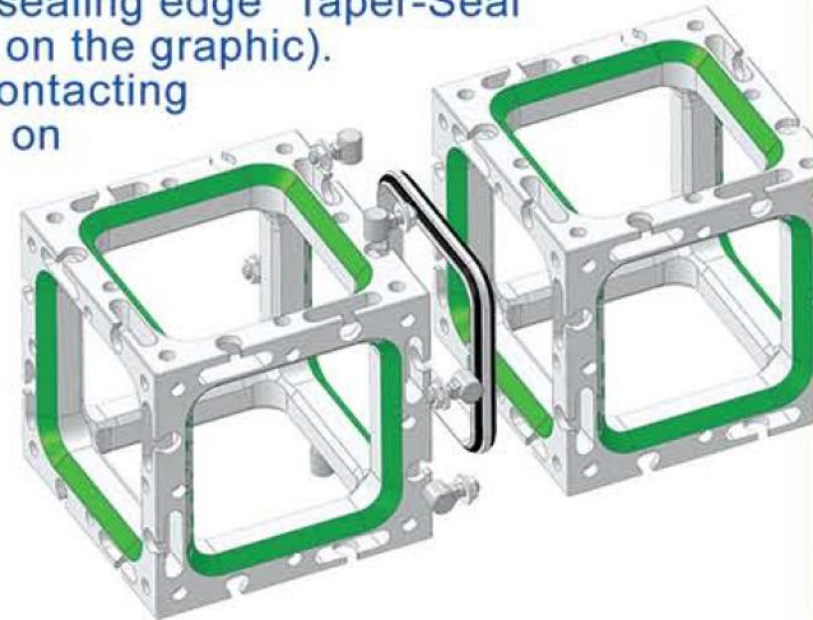
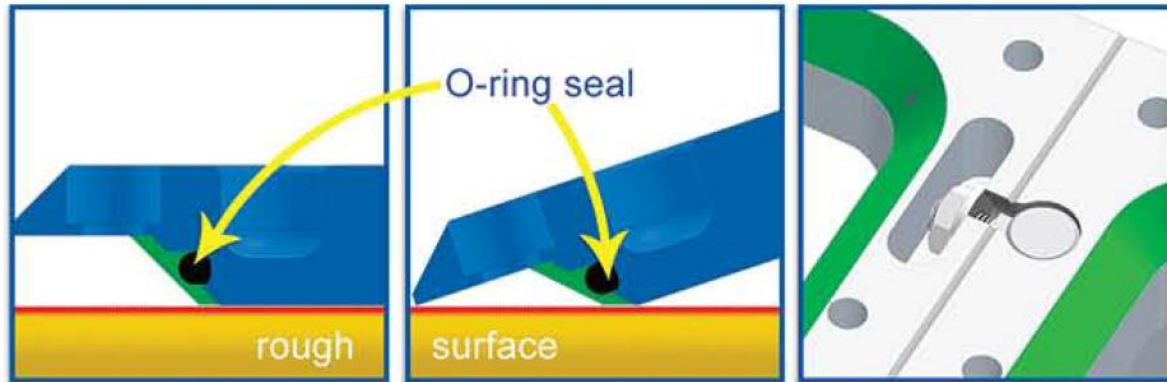


The Vacuum Chamber

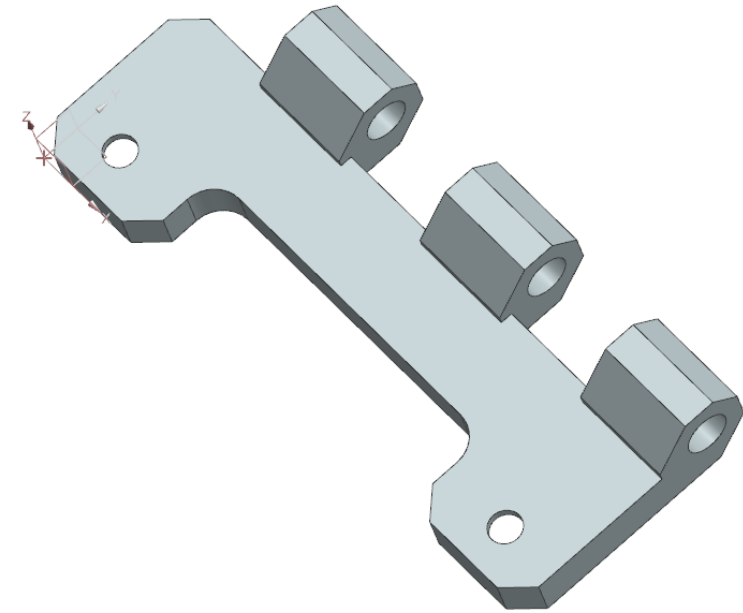
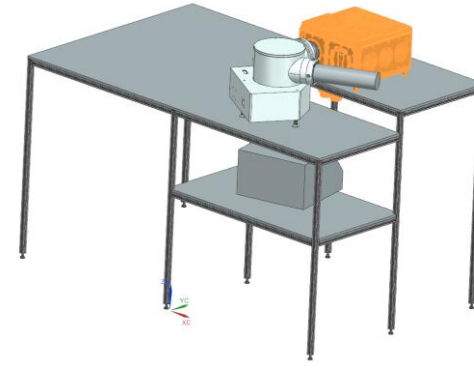
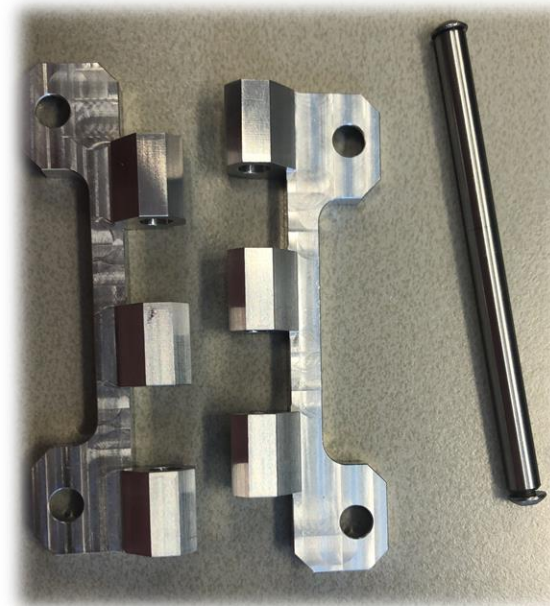
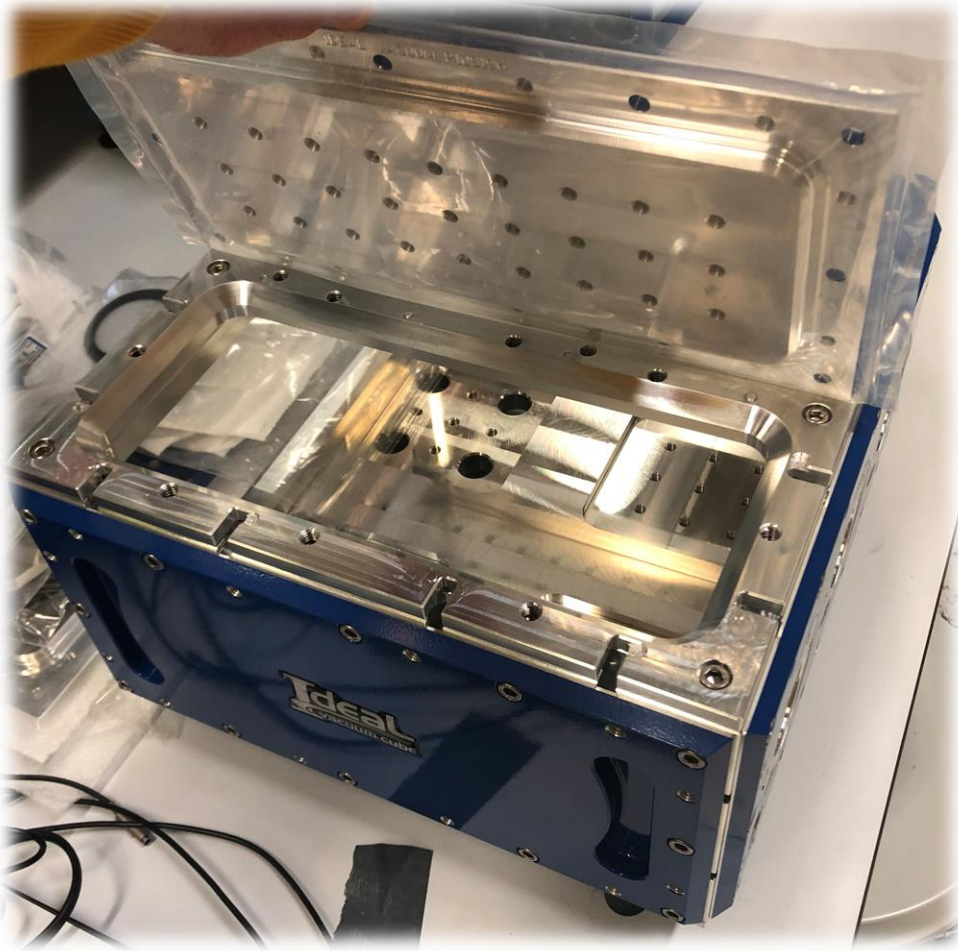


TAPER SEAL TECHNOLOGY

Ideal Vacuum Cubes are manufactured with our innovative sealing edge "Taper-Seal" design which forms a tapered groove seal (see green areas on the graphic). This helps prevent O-ring seals and sealing surfaces from contacting common work table tops. Our Taper-Seal prevents damage on the sealing areas for better vacuum performance.



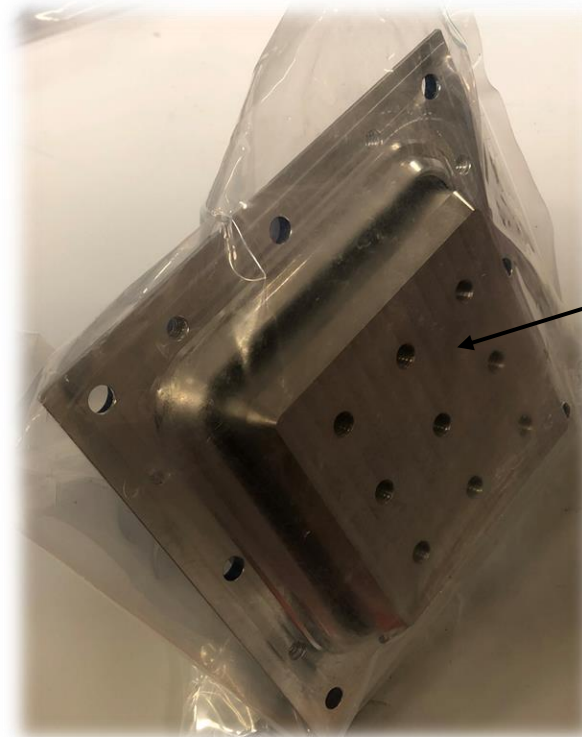
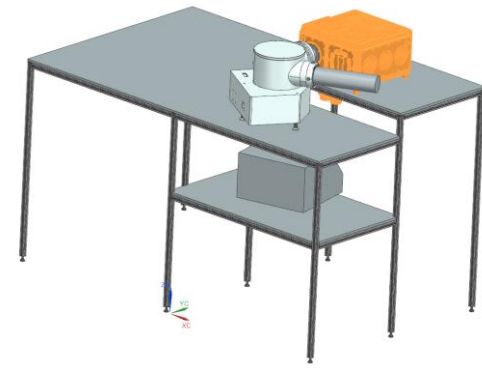
The Vacuum Chamber



The Vacuum Chamber

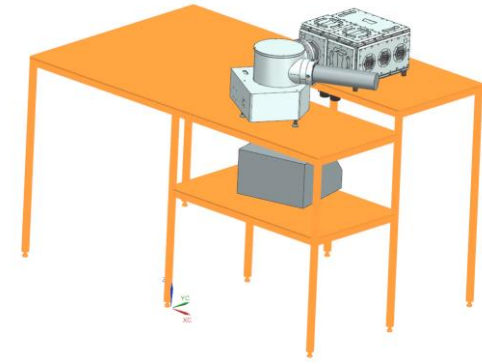
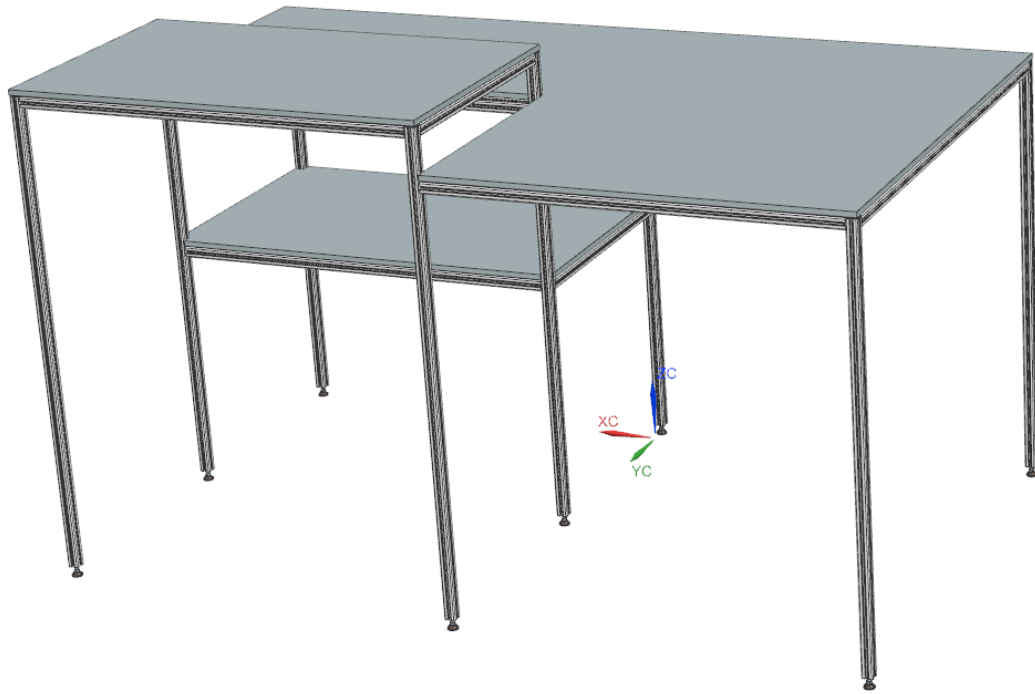


Nitrogen container

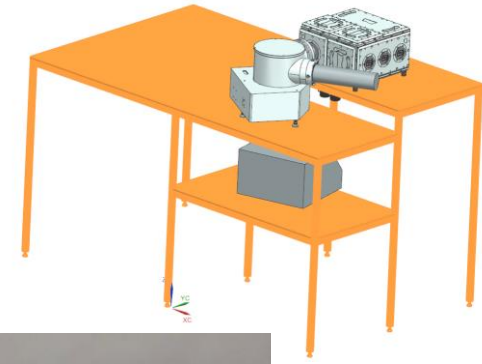
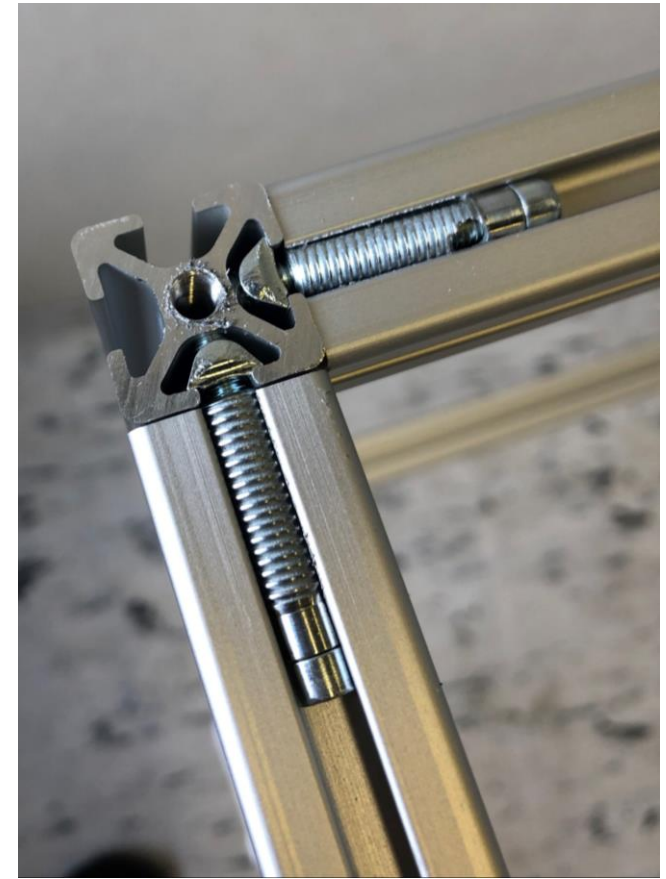


Cooling plate
(in the vacuum)

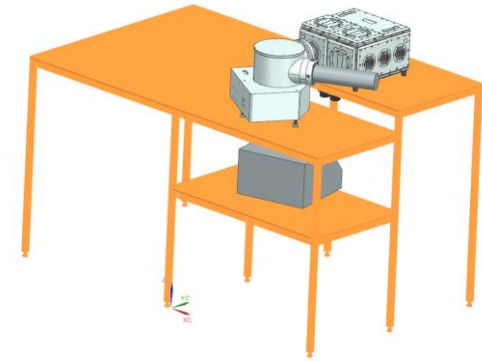
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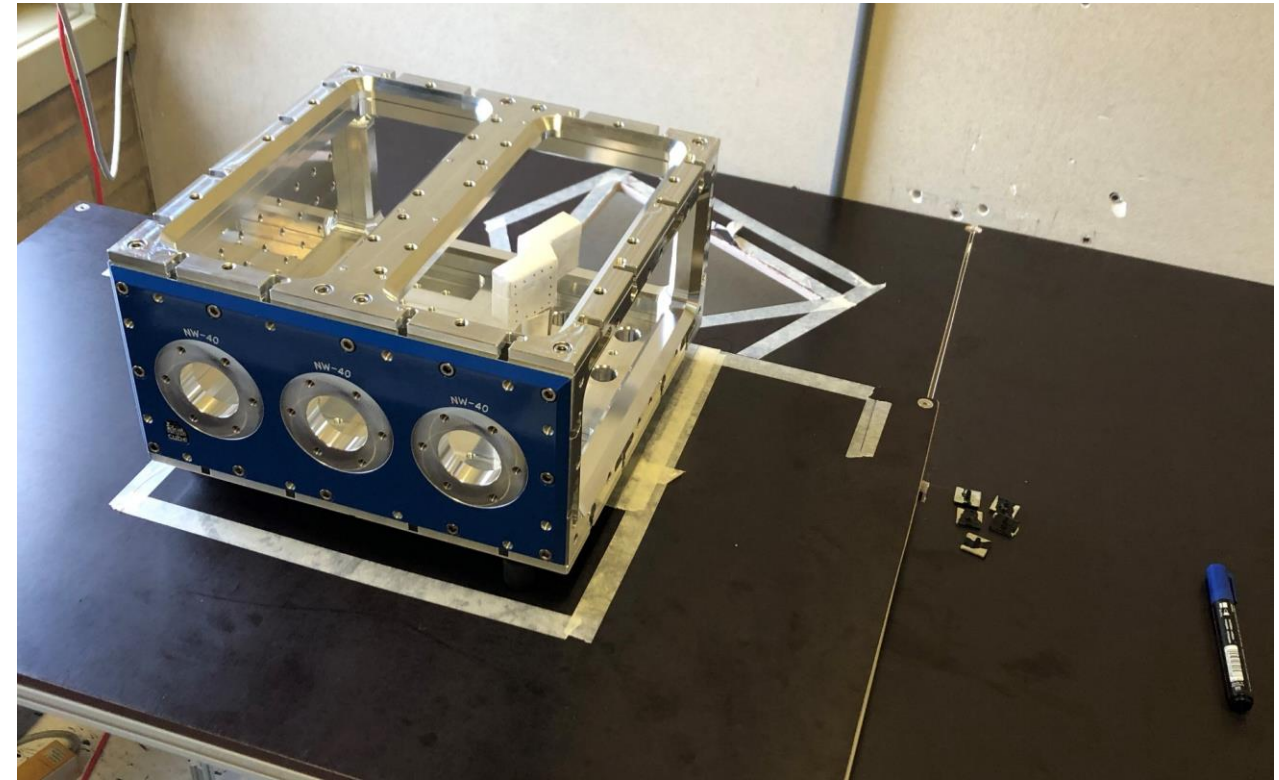
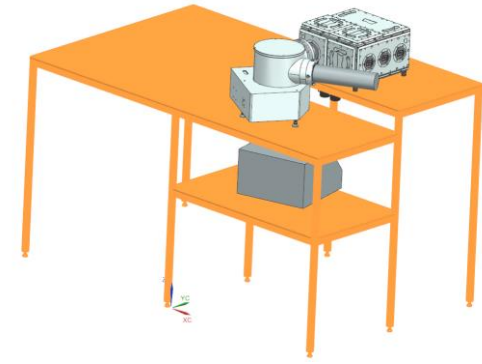
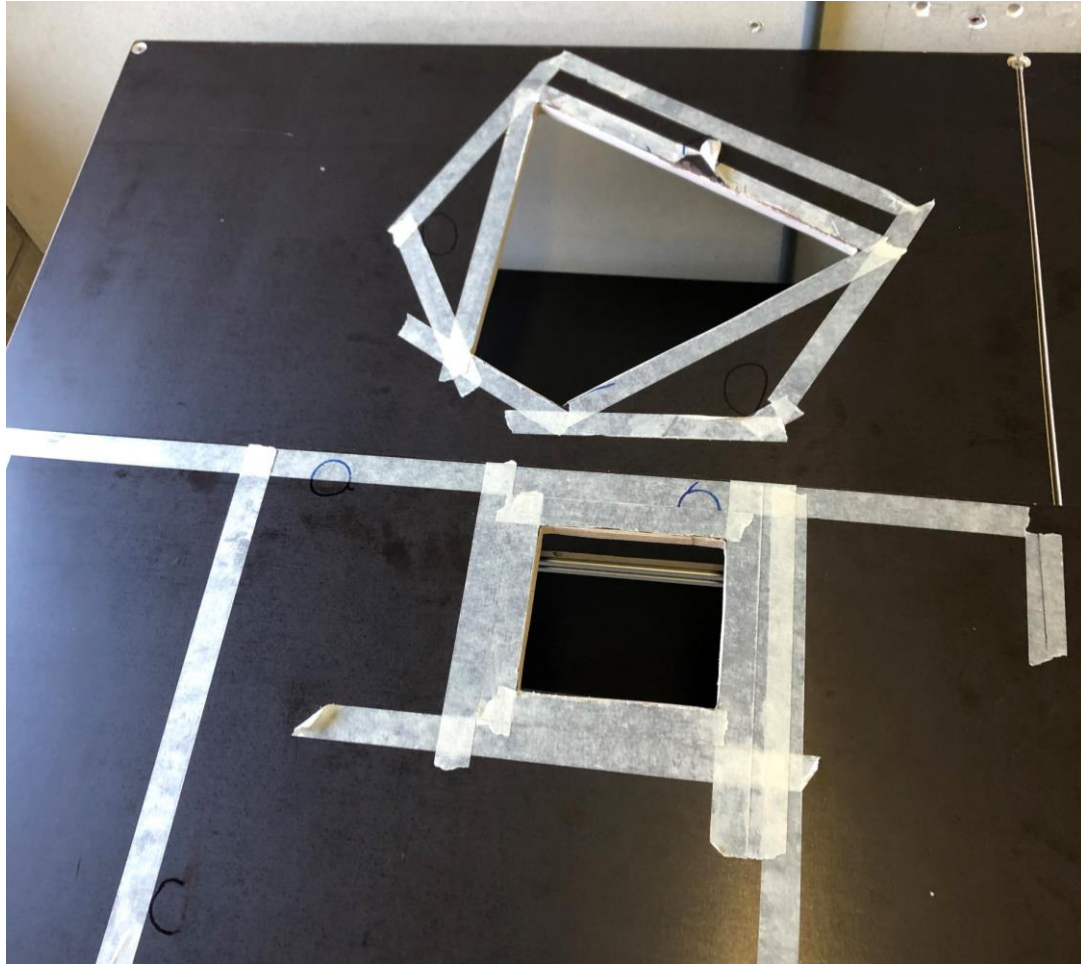
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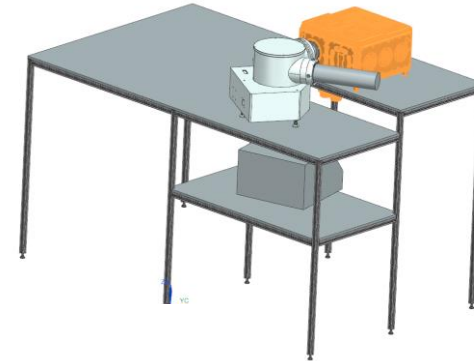
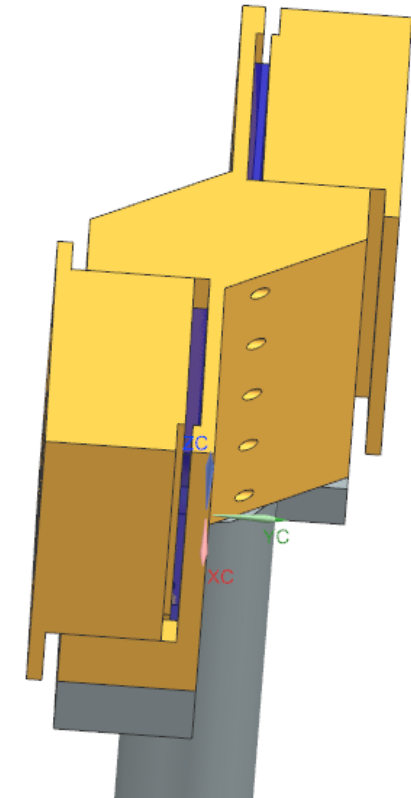
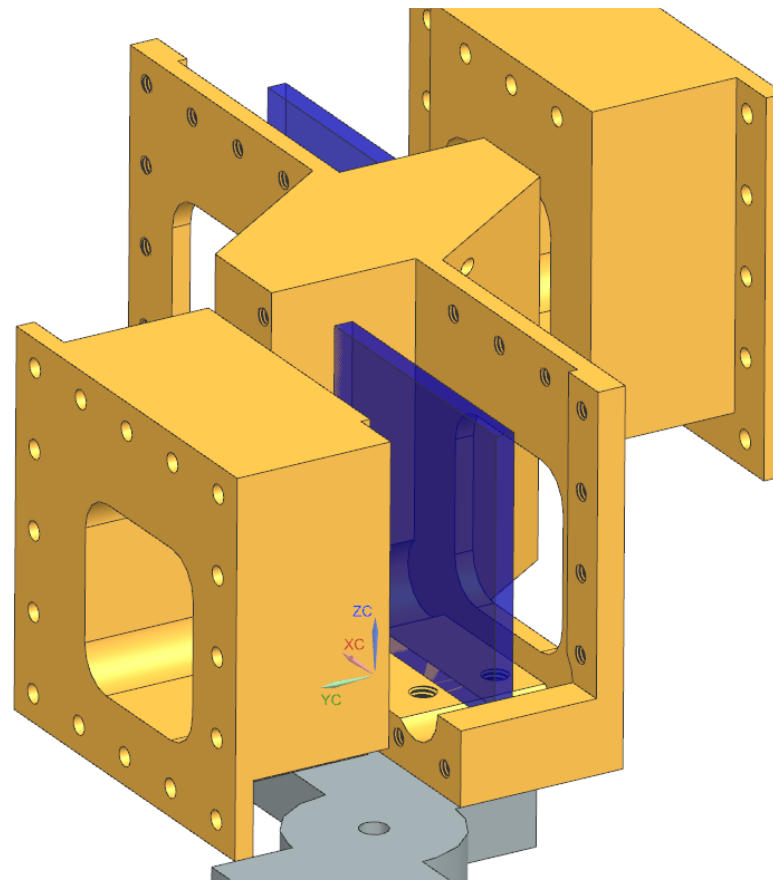
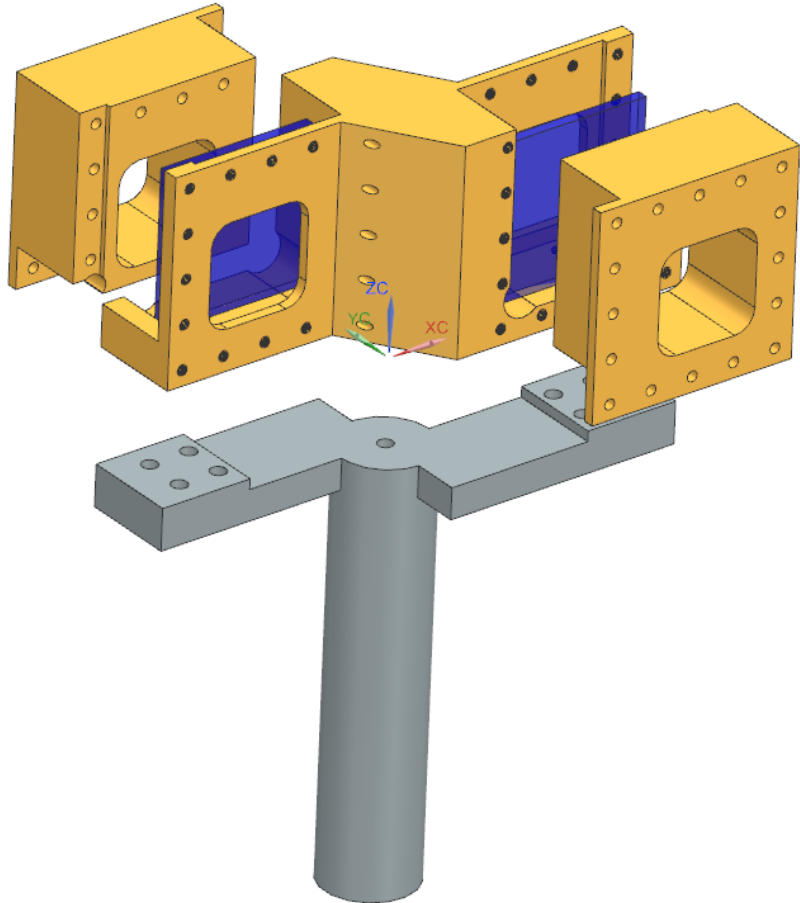
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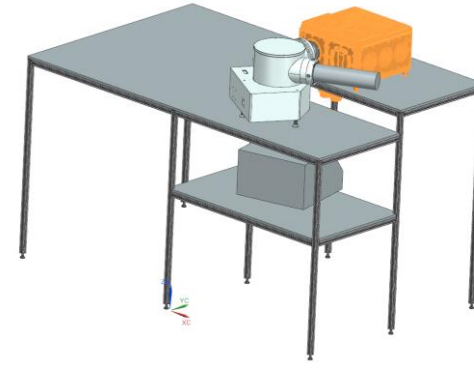
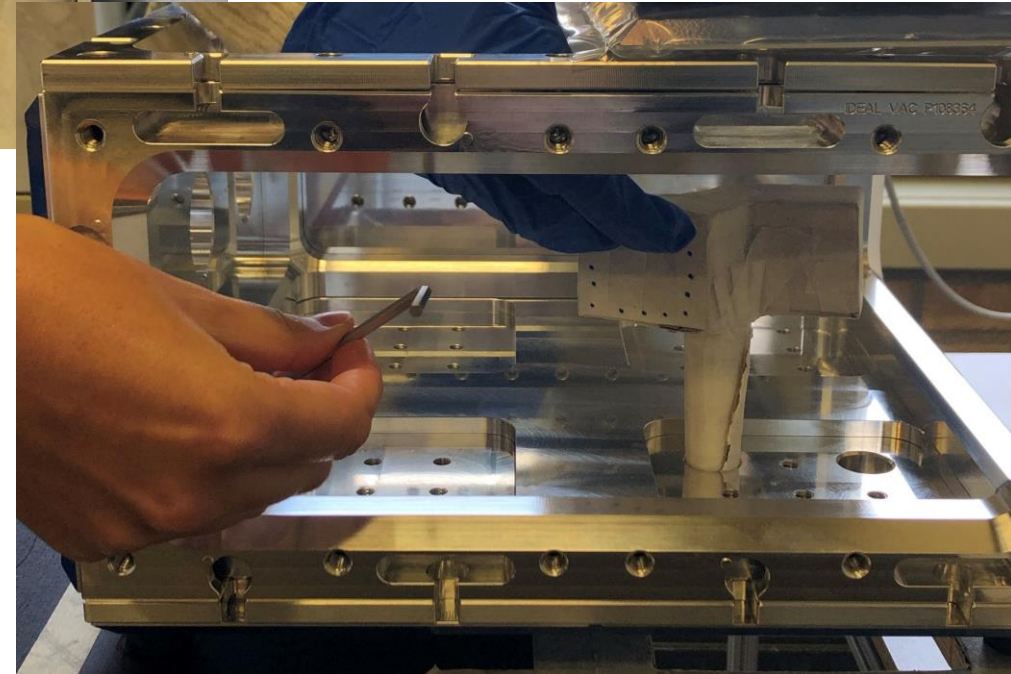
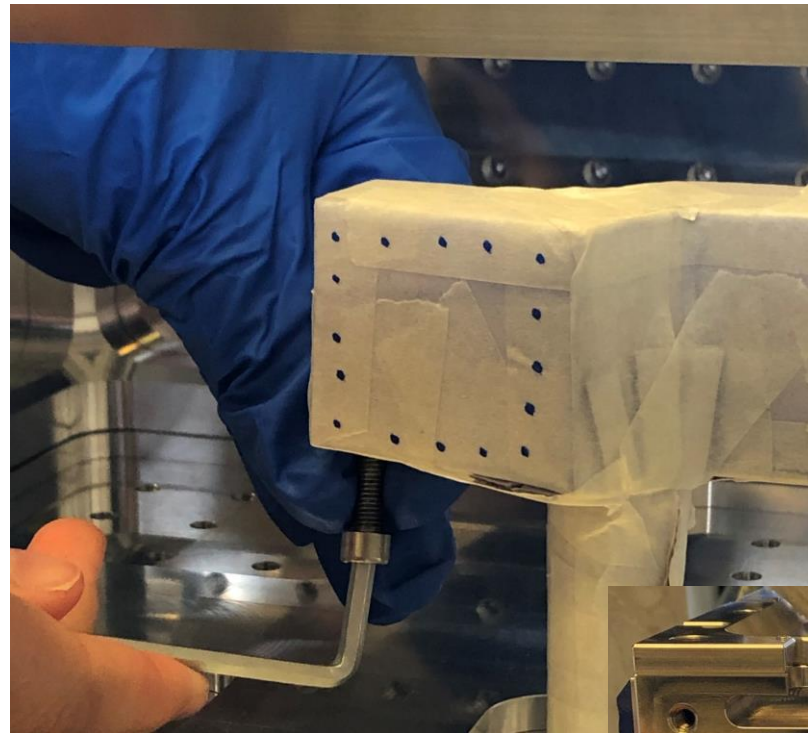
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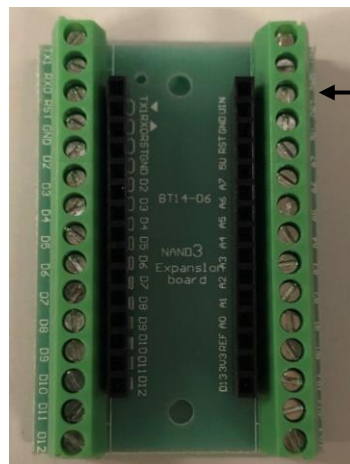
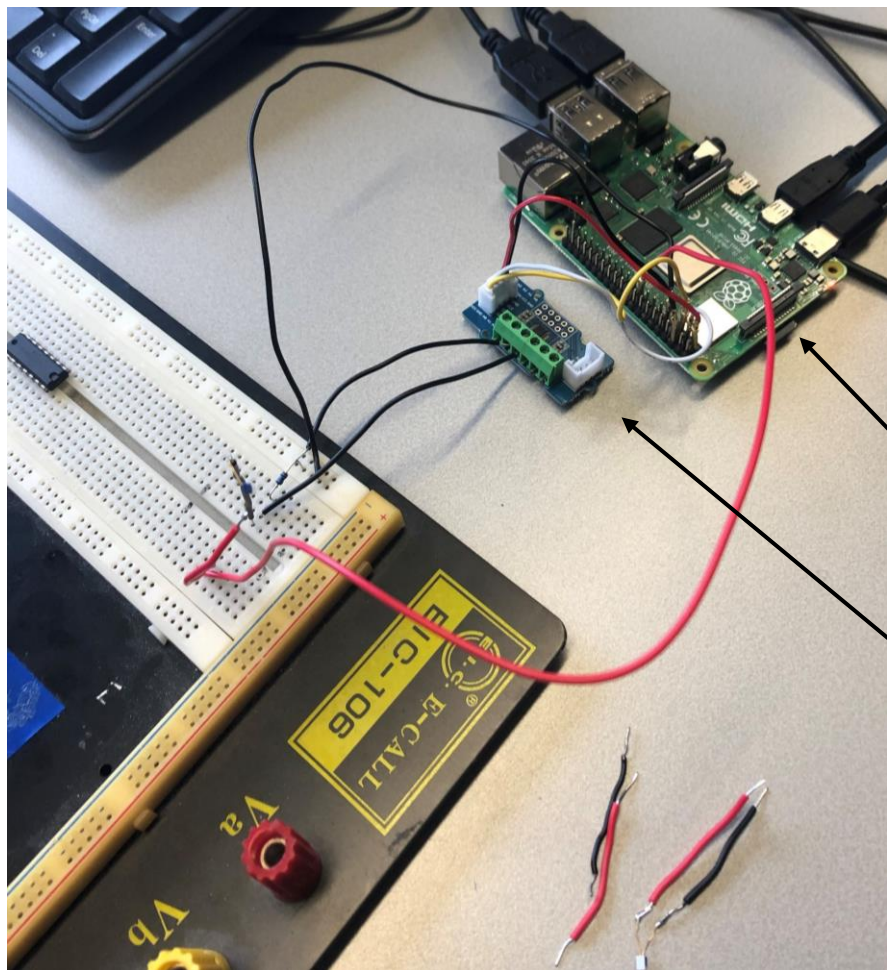
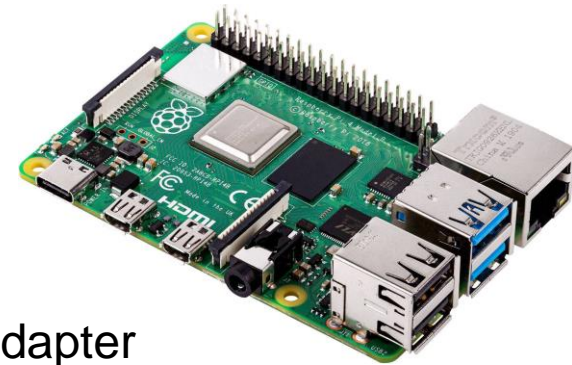
New Sample holder design



Testing accessibility

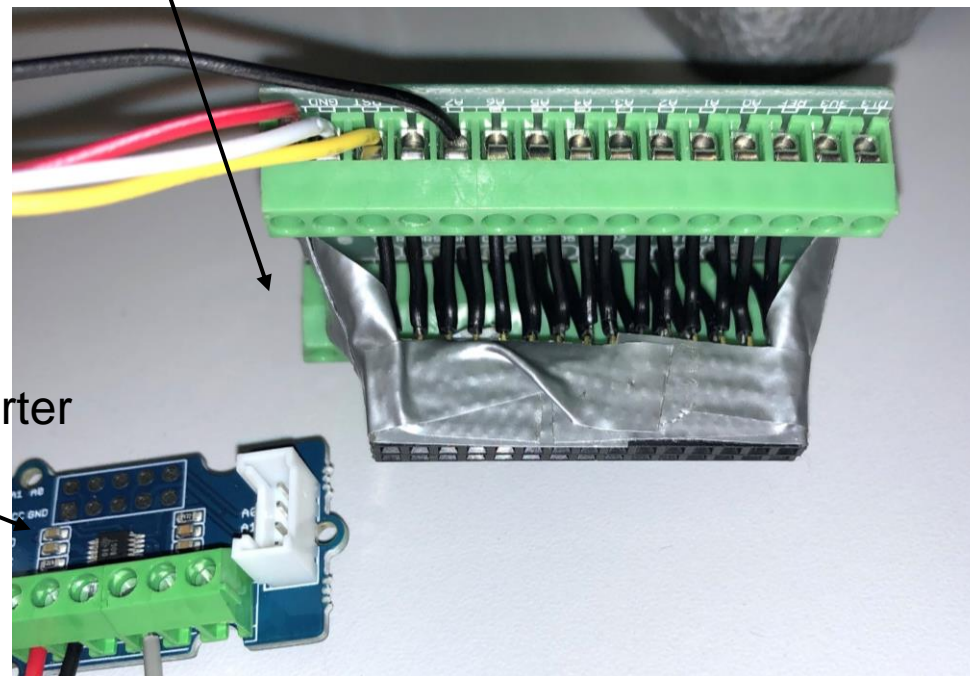


Data acquisition



← Arduino connection adapter

Modified connection adapter



→ Raspberry Pi

→ Analog-Digital converter

Data acquisition

