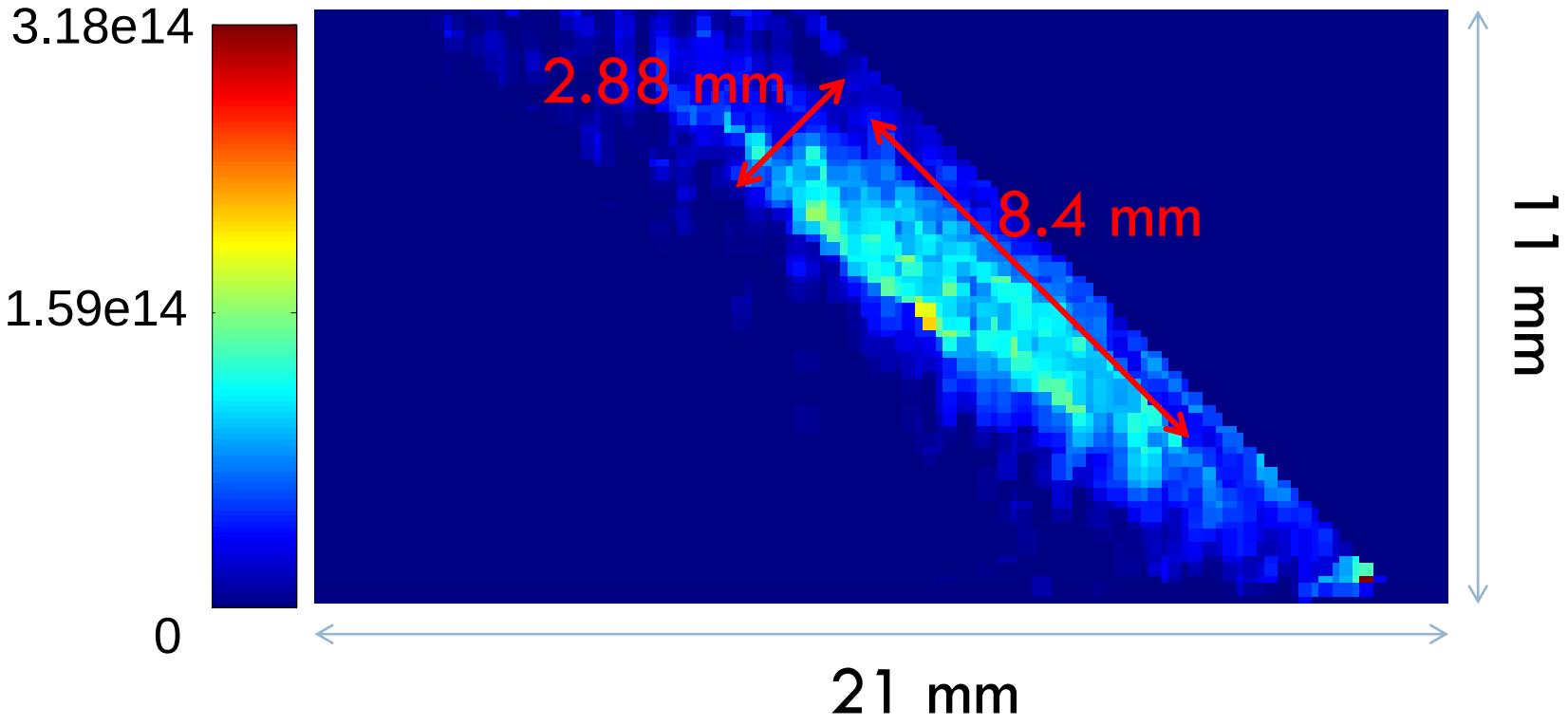
CI UPDATE

Hao Zhang

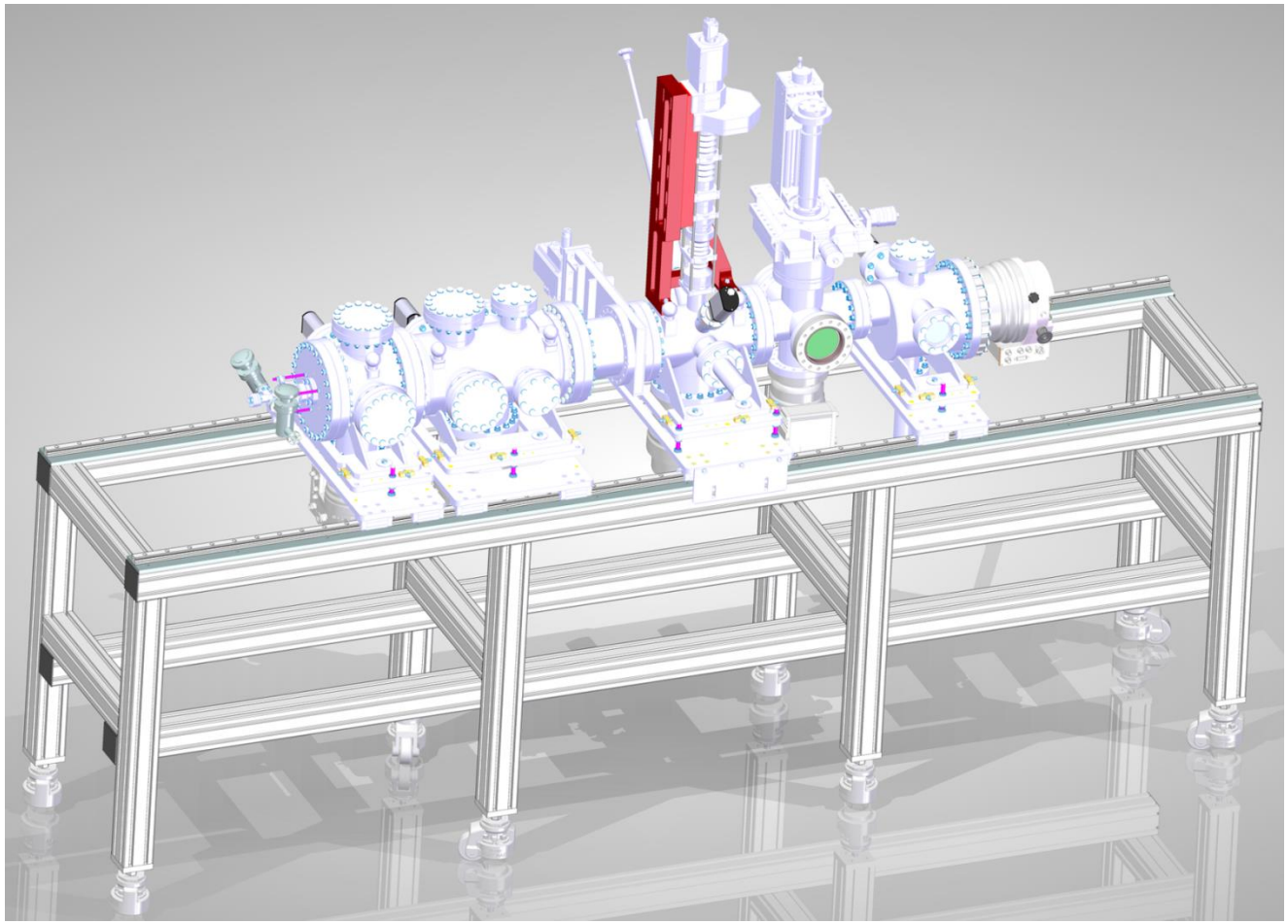
Previously questions

- The scale of current gas jet density
- Progress of the system
- Next steps and timeline.

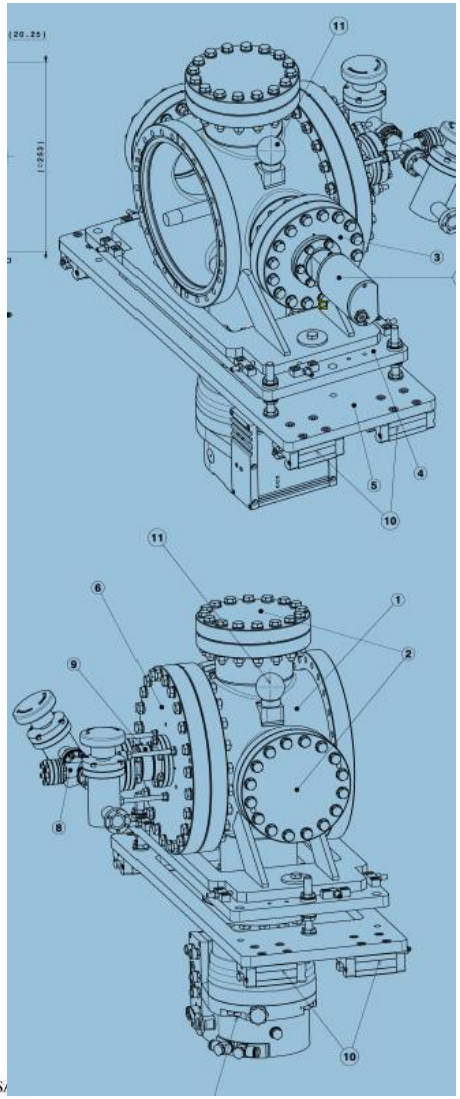
Density scan

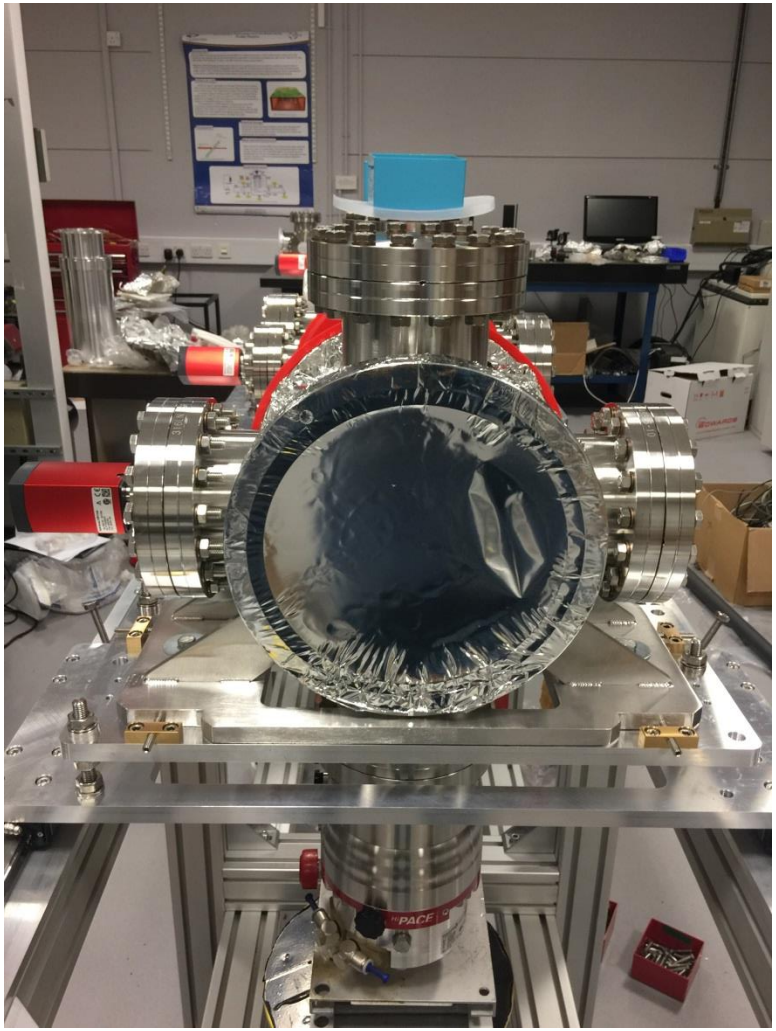


Setup in drawing

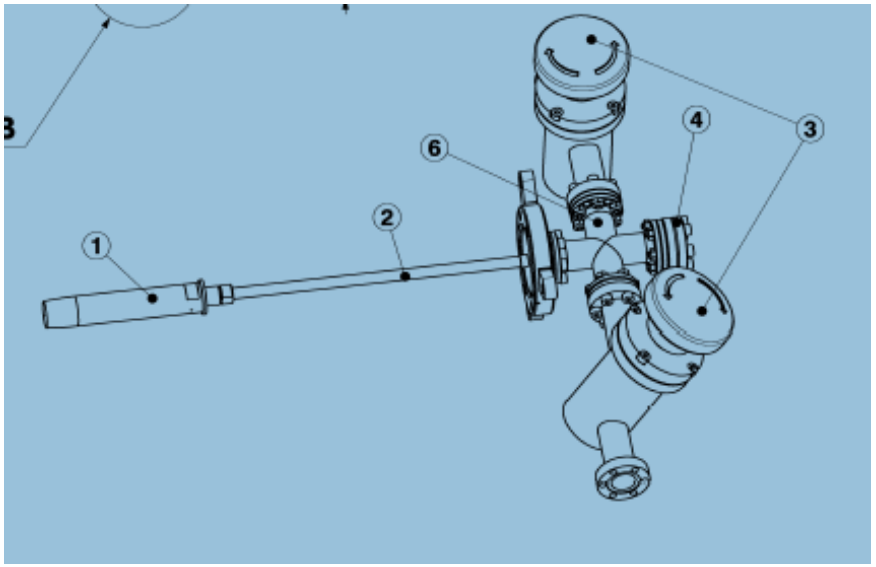


Nozzle chamber

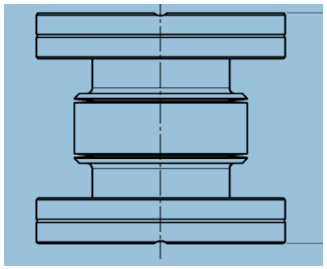




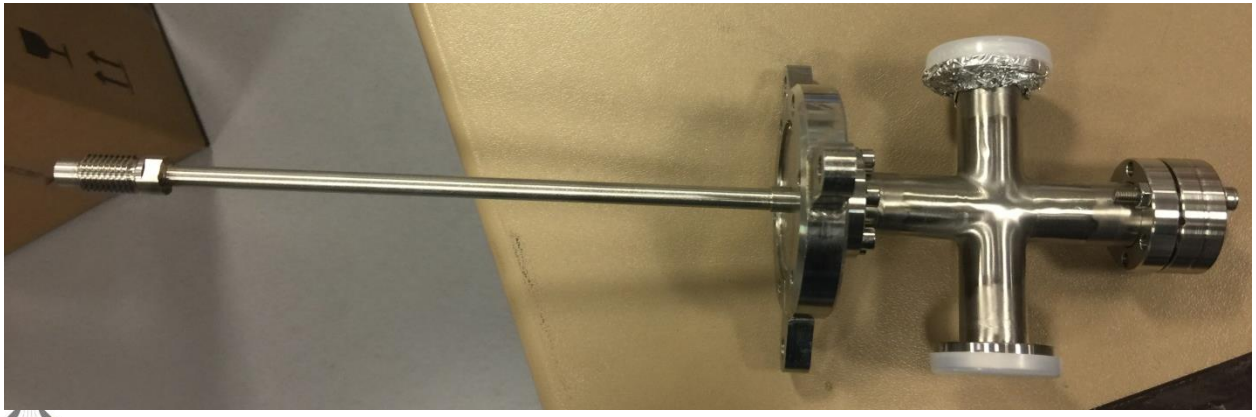
Nozzle assembly



Inline valve will be changed to DN16 flange connected to a Swagelok valve.

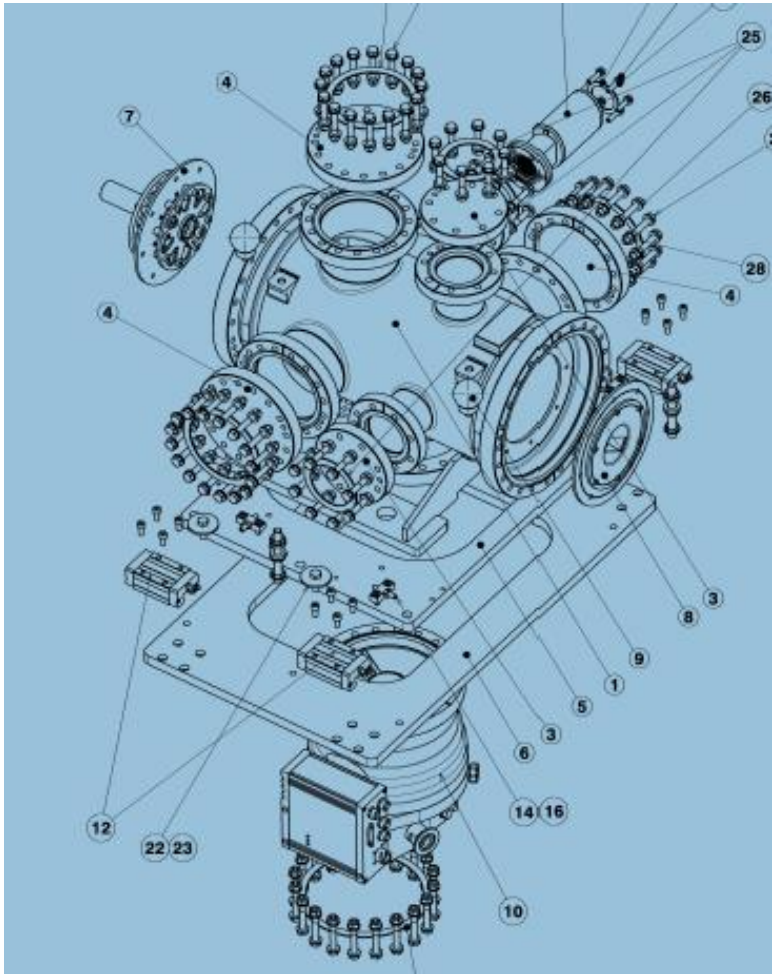


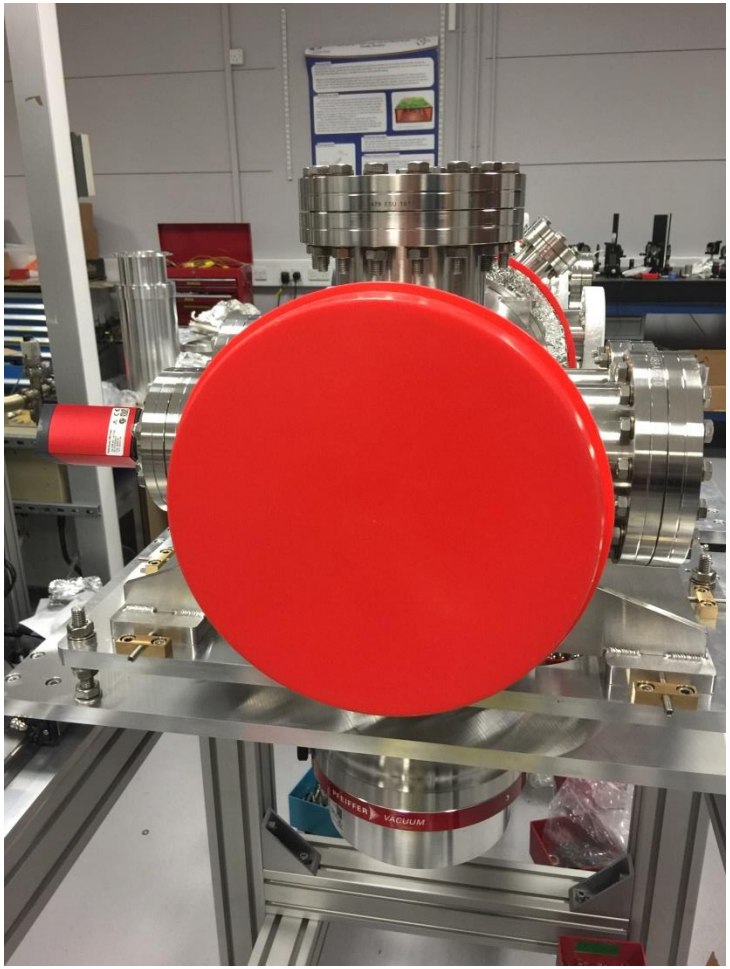
Bellow order from Lesker last year, will be delayed to 19/02.



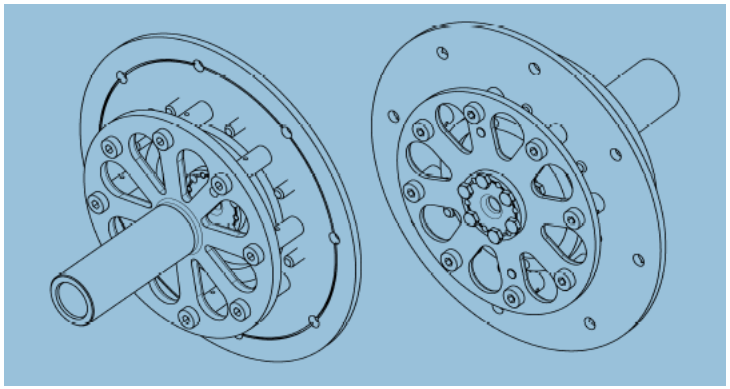
Nozzle??

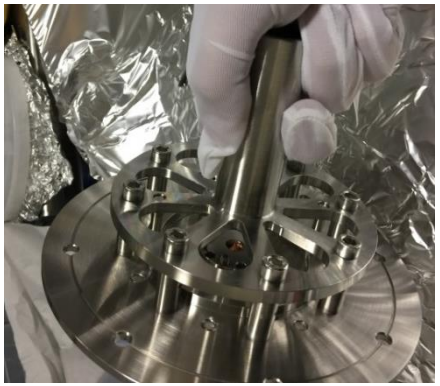
Skimmer chamber

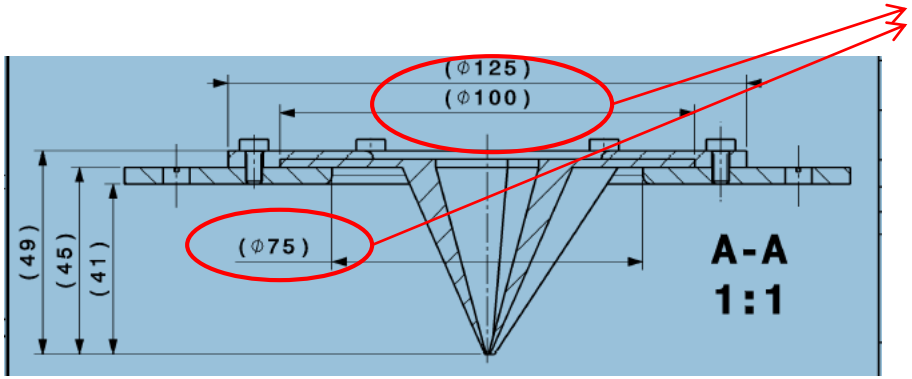




Skimmer assemblies

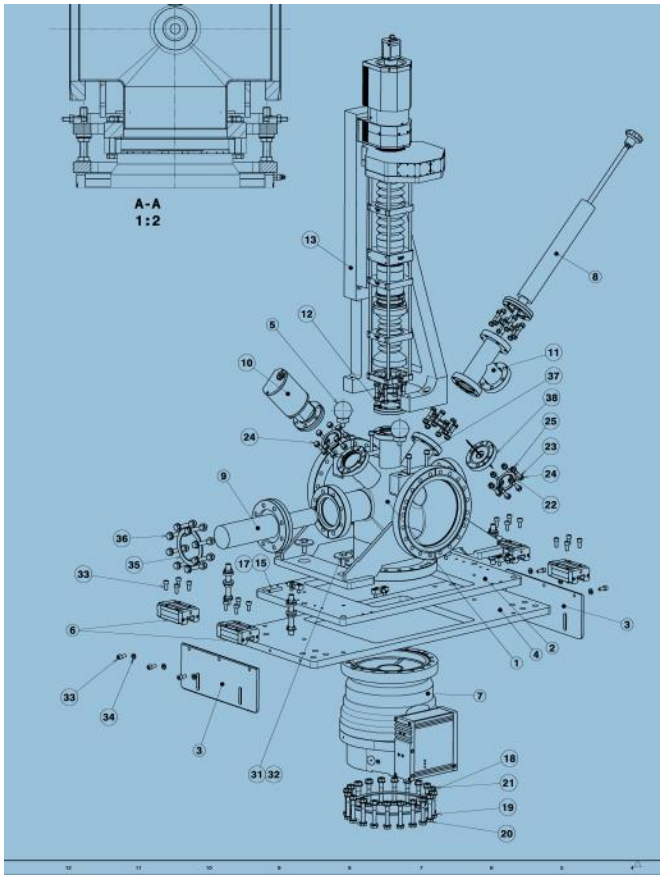


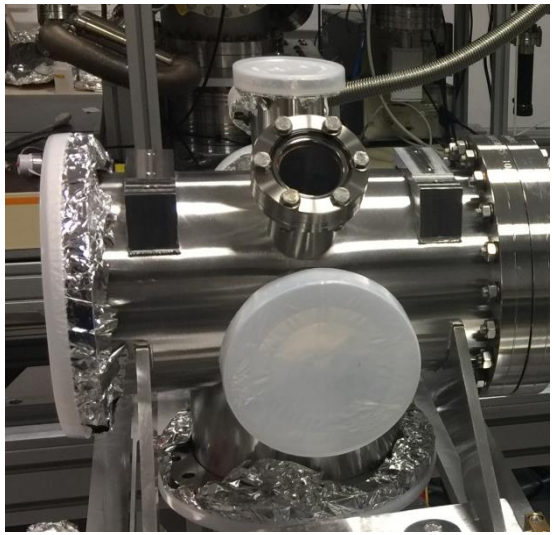




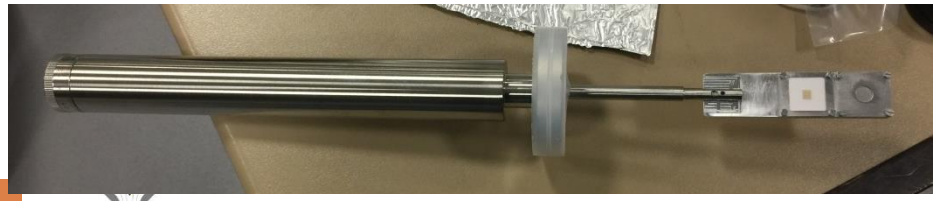
One of the design errors not found. The diameter of the plate of the third skimmer is actually 75 mm. The two piece was remade and will be ready next week.

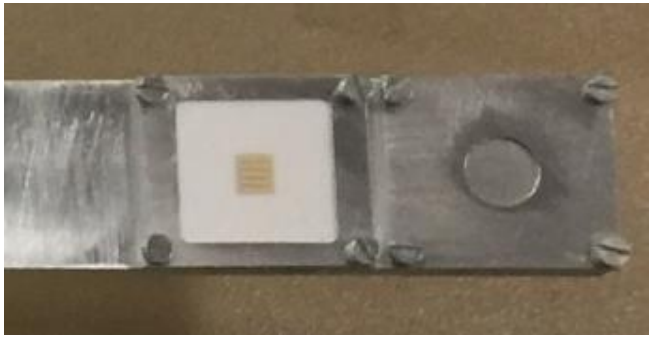
Experimental Chamber





Coating: Currently we could apply a graphite coating pretty quick. Need to make a decision!!!

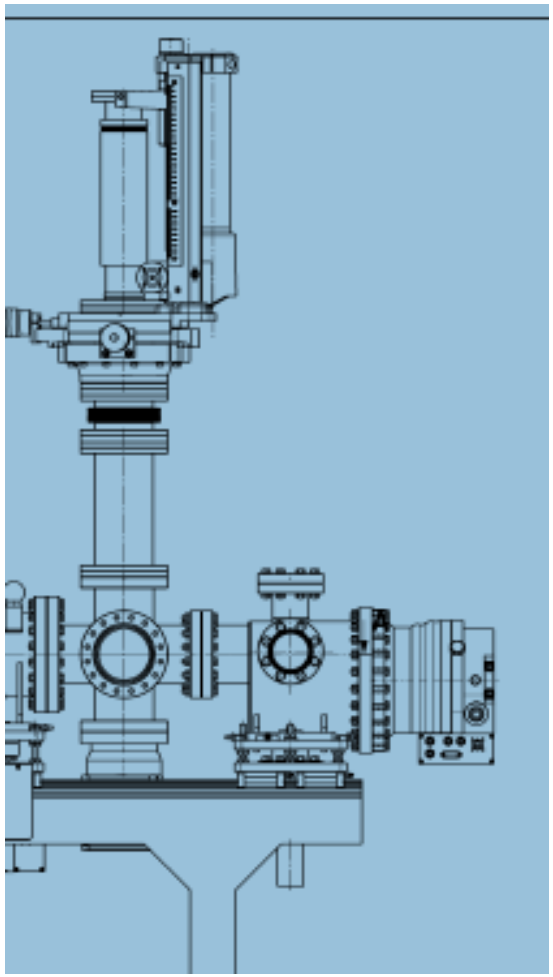


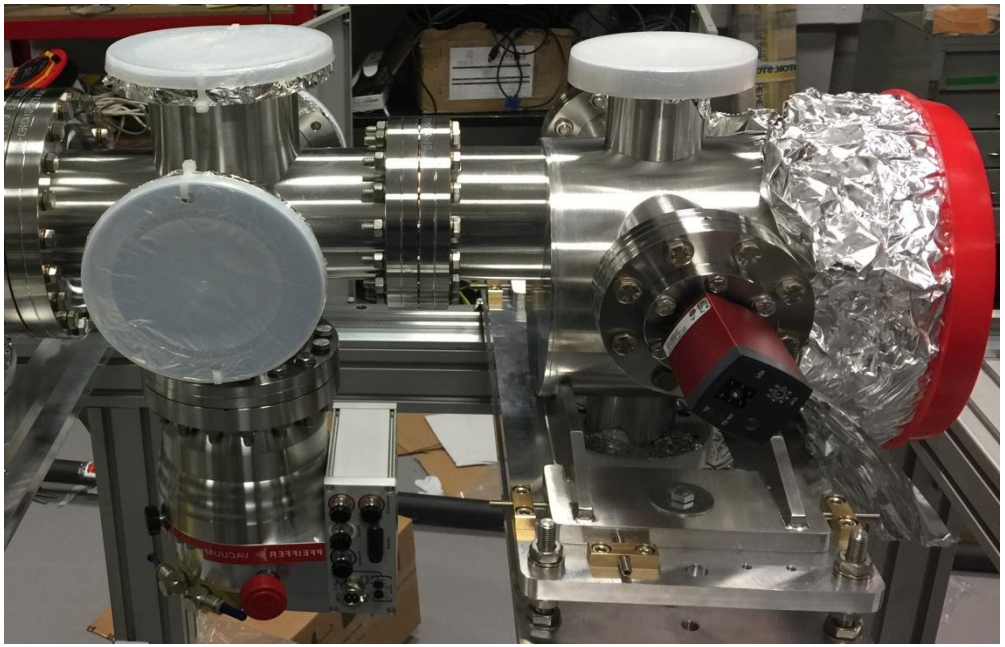


Optical holder and E-gun

- E-gun will be ready in May.
  - COMPLETE EGG-3103/EGPS-3103 System, Standard length, ac 230V (UK standard)
  - option: Electrostatic Deflection capability
  - option: Port Aligner±2 degrees
  - option: Pulsing, Dual-Grid
  - spare parts: FRA-EGG-3103 Spare Field Replaceable Assembly 10 mA
  - Rear Interface Panel Options: standard RS-232 connectors
- Optical holder sent out for quotation. Wait for your approved drawings

Other chamber





The gas jet density scanner will be from the old system.
Amir will made a mirror holder for laser alignment. (linear bellow drive is ready)

Summary of things not ready

- Bellow flange(Connect nozzle and gas injection, delayed from Lesker, will be 19/02)
- Nozzle (CERN? we have spare nozzles, but need to design and manufacture the clip holder fitted to current design)
- Third skimmer holder (redesigned and manufactured will be ready 09/02)
- Coating for experimental chamber? Shall I continue with Graphite coating?
- Optics holder quoted (3 weeks)
- E-gun? Will use one of the old gun for test.
- Laser alignment system.

What is the next

- Contact electrician to have power connection or move the whole system to the wall.
- Assemble laser alignment system. (Component ready in our optics lab).
- Mount the skimmer assemblies.
- Graphite coating.
- Gas pipe connection.
- Begin to pump down by next meeting