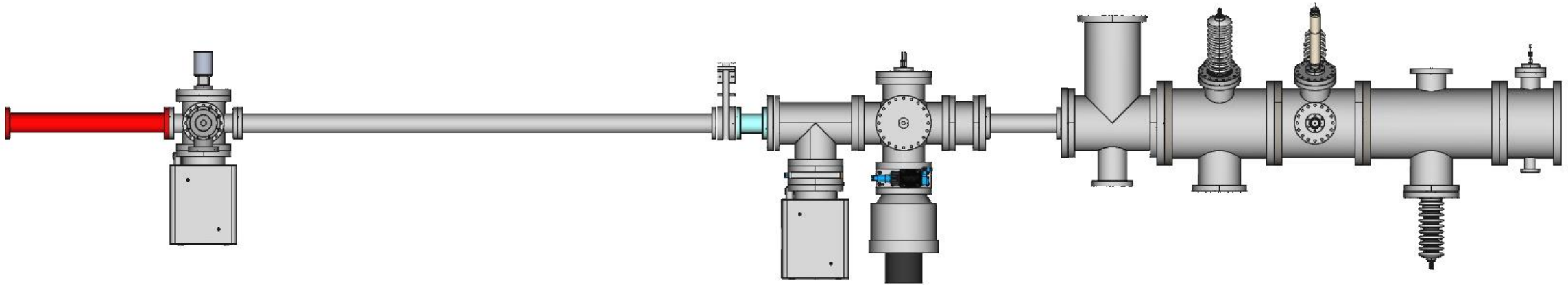


# Weekly report

SNU

BongHo Kim

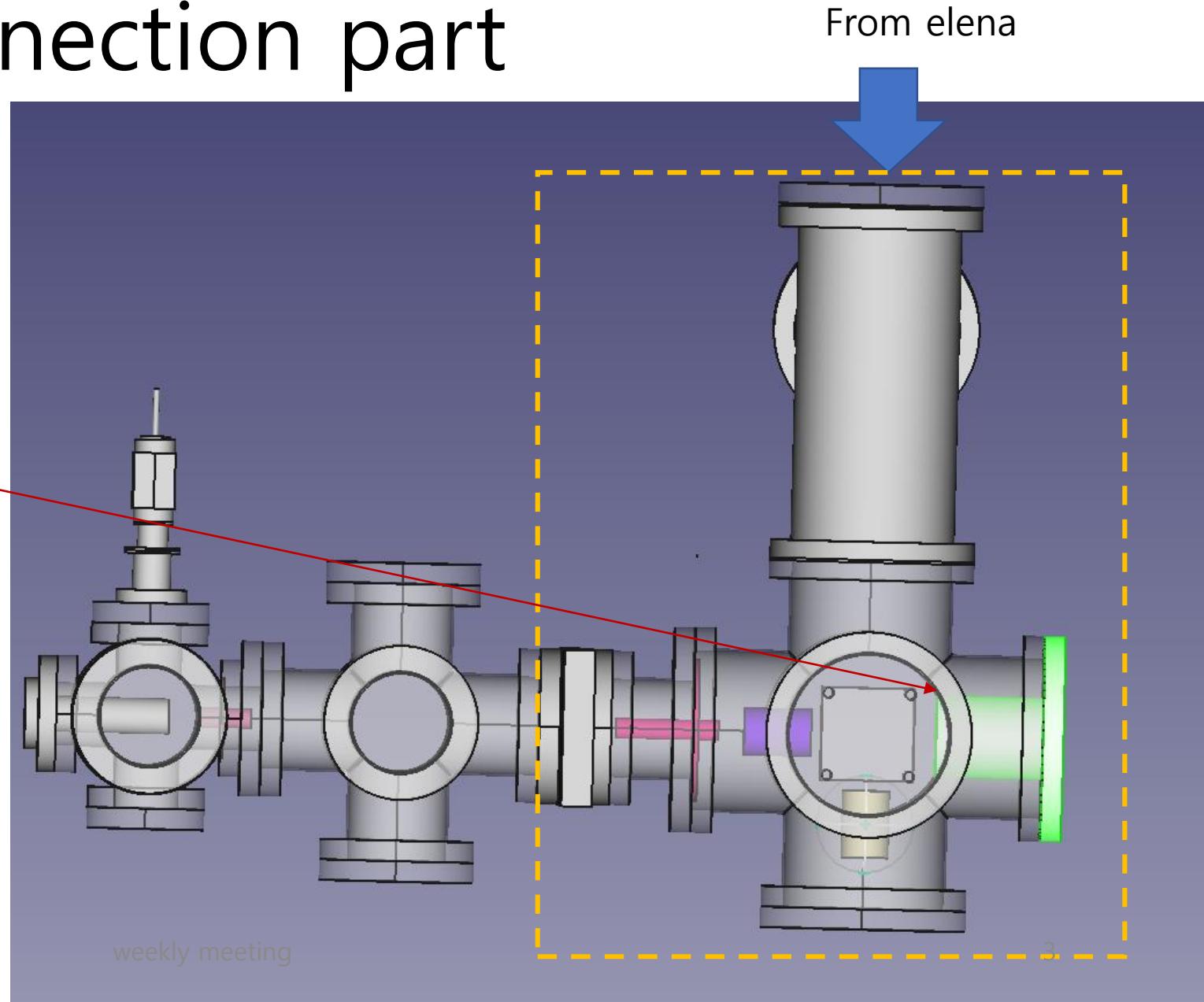
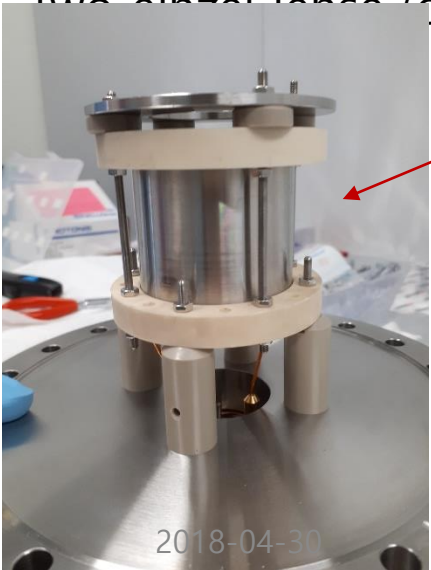
# Issue of decelerator line



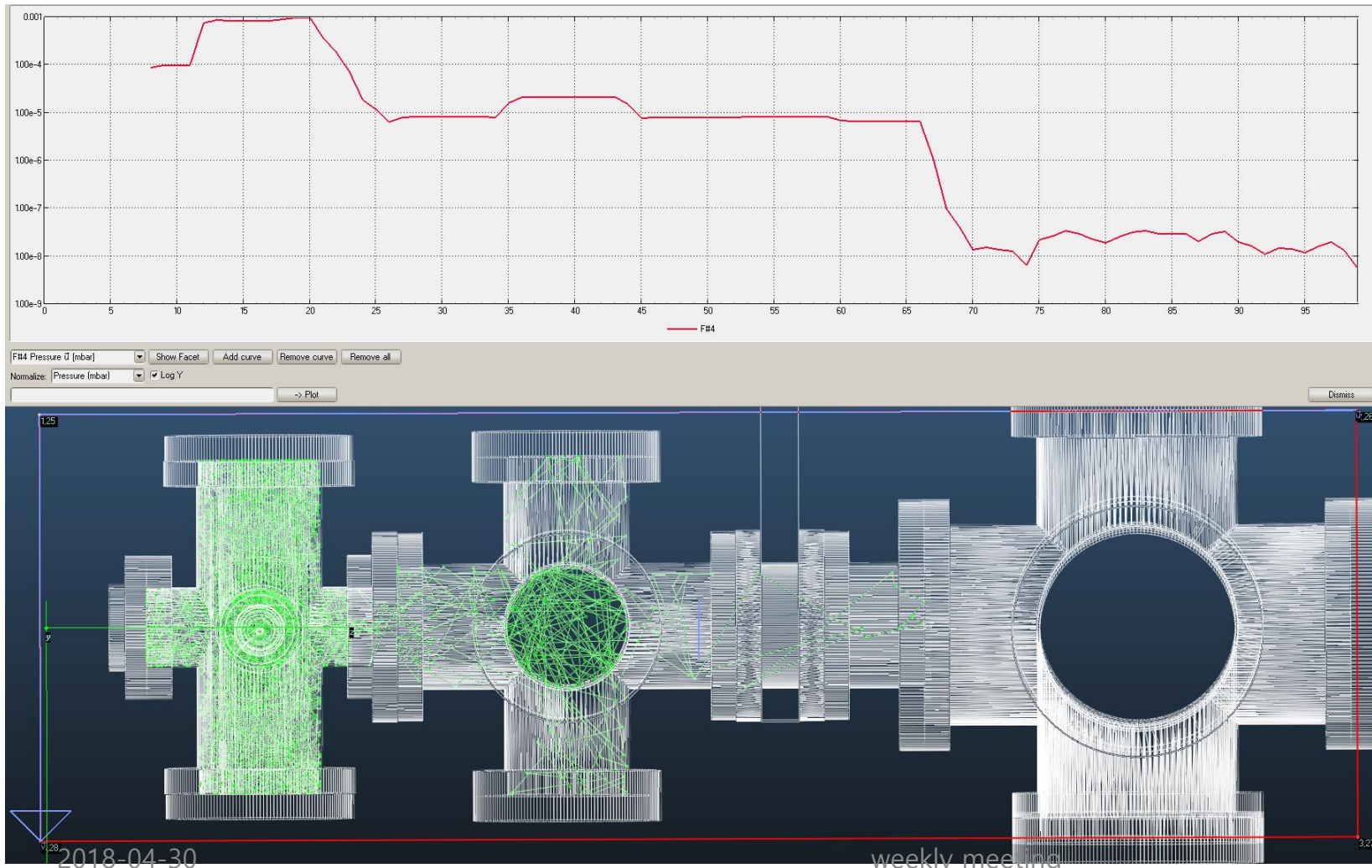
- Three Pneumatic gate valve (now) with three 24V power supply.
- One manual gate valve
- Whole gauges will be monitored by maxigauge controller
- Dirk may want to prepare CompactRio system for these issue.
- All chamber items has been prepared. (What will cover the end of line?)

# Proton line connection part

- Yellow square shows items which are installed with new decelerator chamber.
- Pumping restriction
- Supercup
- Bender (ready)
- Two einzel lenses (one is ready)



# Molflow simulation of proton line



- Pumping restriction
  - $D=1\text{cm}$ ,  $L=5\text{cm}$  (first)
  - $D=0.7\text{cm}$ ,  $L=10\text{cm}$  (second)
- Input : 20sccm
- Pumping speed
  - 280 l/s (first and second)
  - 850 l/s (third)
  - 300 l/s (T connector)
- Hand calculation shows same order of magnitude.

# Rough schedule

- New decelerator chamber will be delivered in this week (today or Wednesday)  
→ After sending to cleaning center, mount will be started about week after.
- In the same week, linac will be restarted.
- Two students want to work for proton line and I need to discuss and manage.
- I will try to spend time as much as possible for writing.
- Vacation : 17<sup>th</sup>, May to 23<sup>th</sup>, May, Electric Abilitation : 29<sup>th</sup> May to 1<sup>th</sup> June.