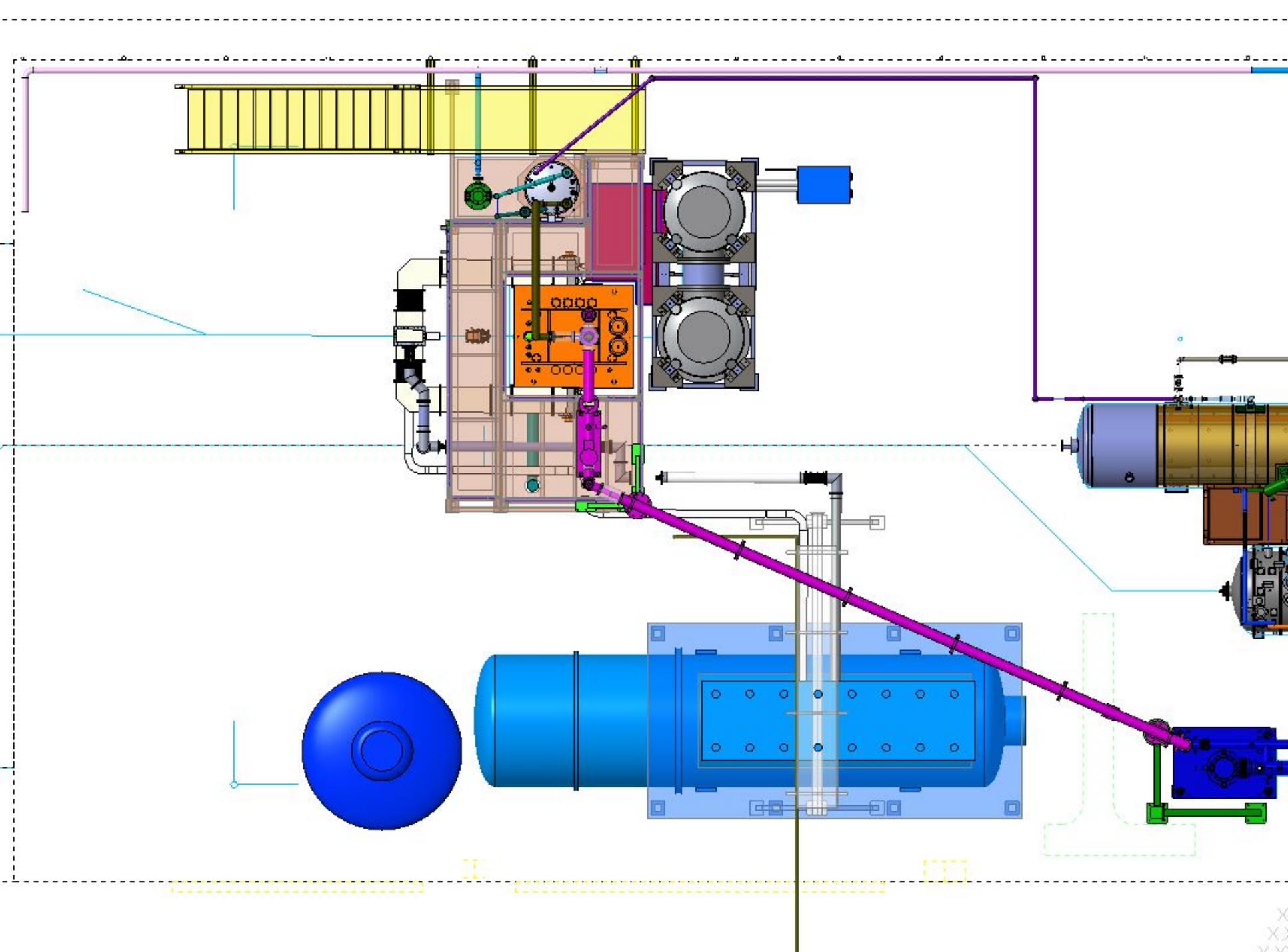
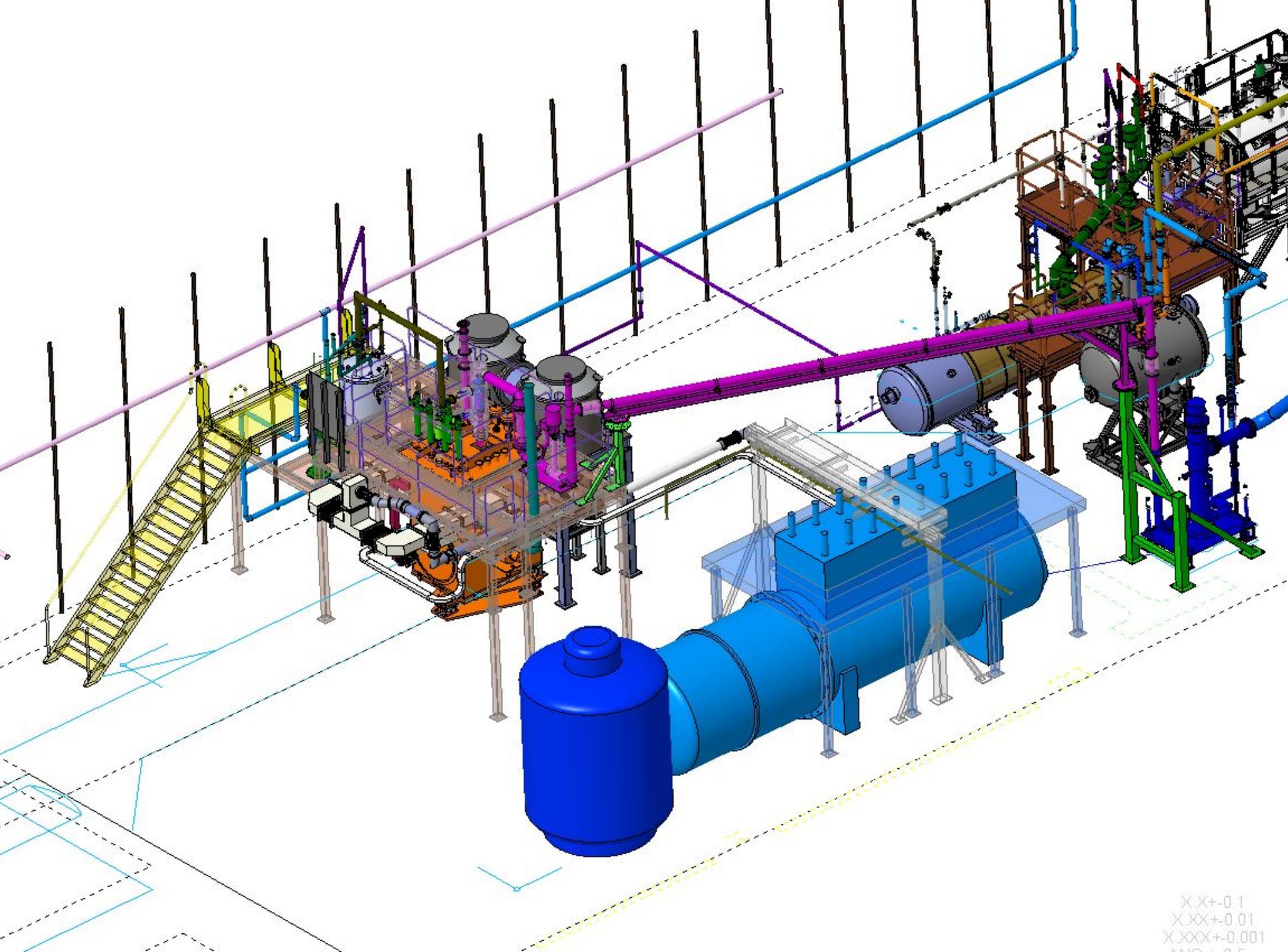


Booster Cavity Installation Meeting 4 7 2016

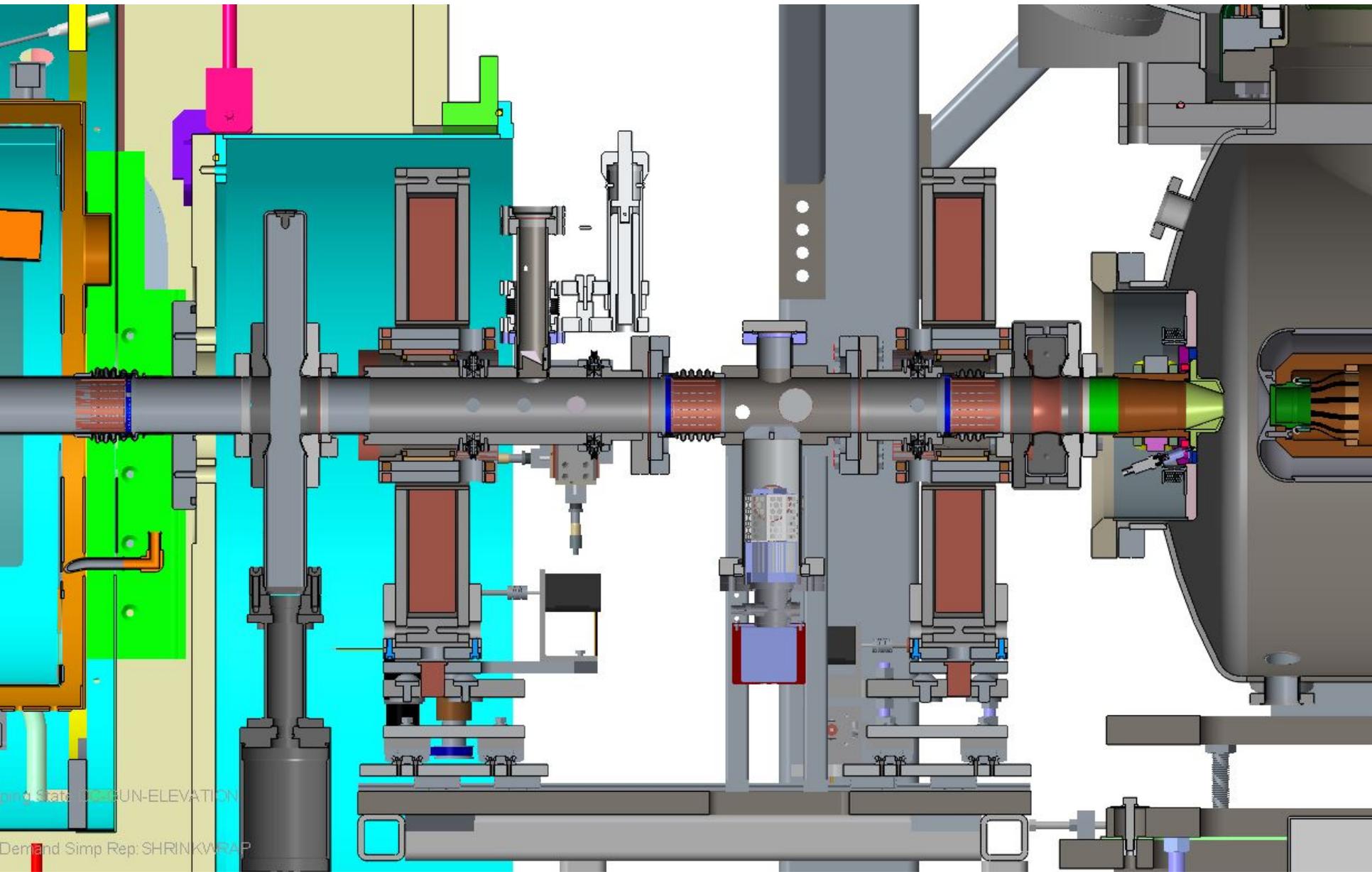
Minutes: (Halinski, Meier, Tuozzolo, Brutus, McIntyre, Phillips, Than, Soria, Nayak)

- In the last meeting there was a concern about installing the Booster Cavity with the Gun to Booster transport line installed.
- G. McIntyre suggested removing the last section of the Gun to Booster transport line at the beginning of the 2017 shutdown and installing on a bracket off the cavity. This would allow the cavity to be translated into place, the clean room established, and the seal installed to re-establish the beamline. There are many advantages to this and no show stoppers were identified.
- The Booster Cavity will be ready for this installation in June 2017 which aligns with the RHIC run schedule.
- The Downstream GtBC section would be surveyed and aligned with the booster cavity in a much more convenient location.
- A temporary stand will support the downstream solenoid during the 2017 DC gun commissioning period.
- This is the plan moving forward. John Halinski will continue to work on GtB beam line components with an eye on any potential issues.
- Bob Meier will continue to work on completing the cryogenic line specification control drawings.
- There was discussion on the downstream end of the Booster cavity shown in slide 5. The coax beam tube size is determined by RF needs for the HOM (Binping) so a reducer is needed. G. McIntyre will check if the reducer can be installed at the HOM before the downstream end flange to save beam line space.
- The existing ERL gun downstream beam tube will have to be modified with additional ports (from 2 to 4 ports). Ports are needed for the burst disk, ion pump, gauge, and vacuum roughing/helium conditioning valve.
- More detailed design work is needed from J. Halinski; but, will have to be scheduled in concert with GtB transport line help.



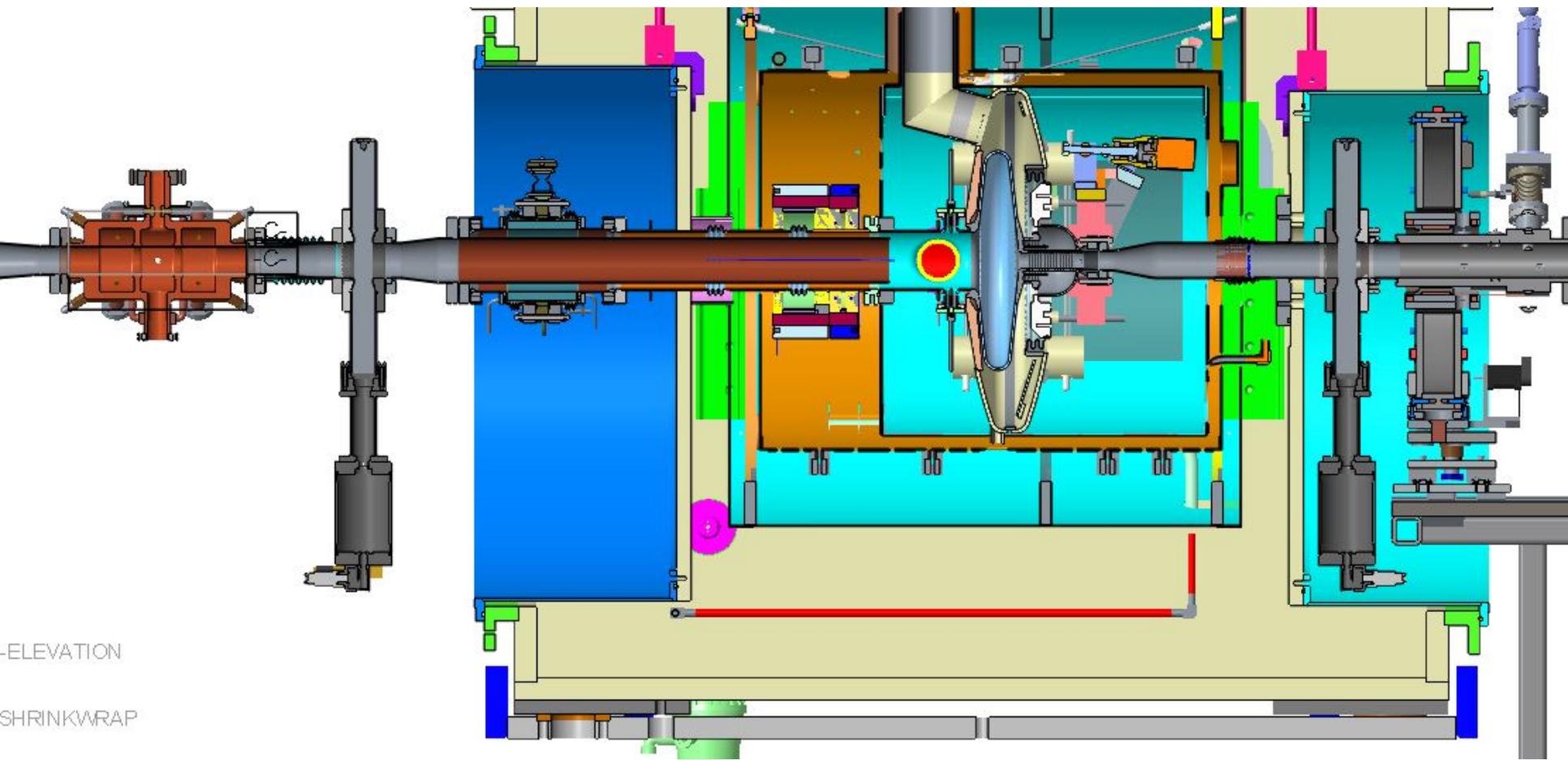


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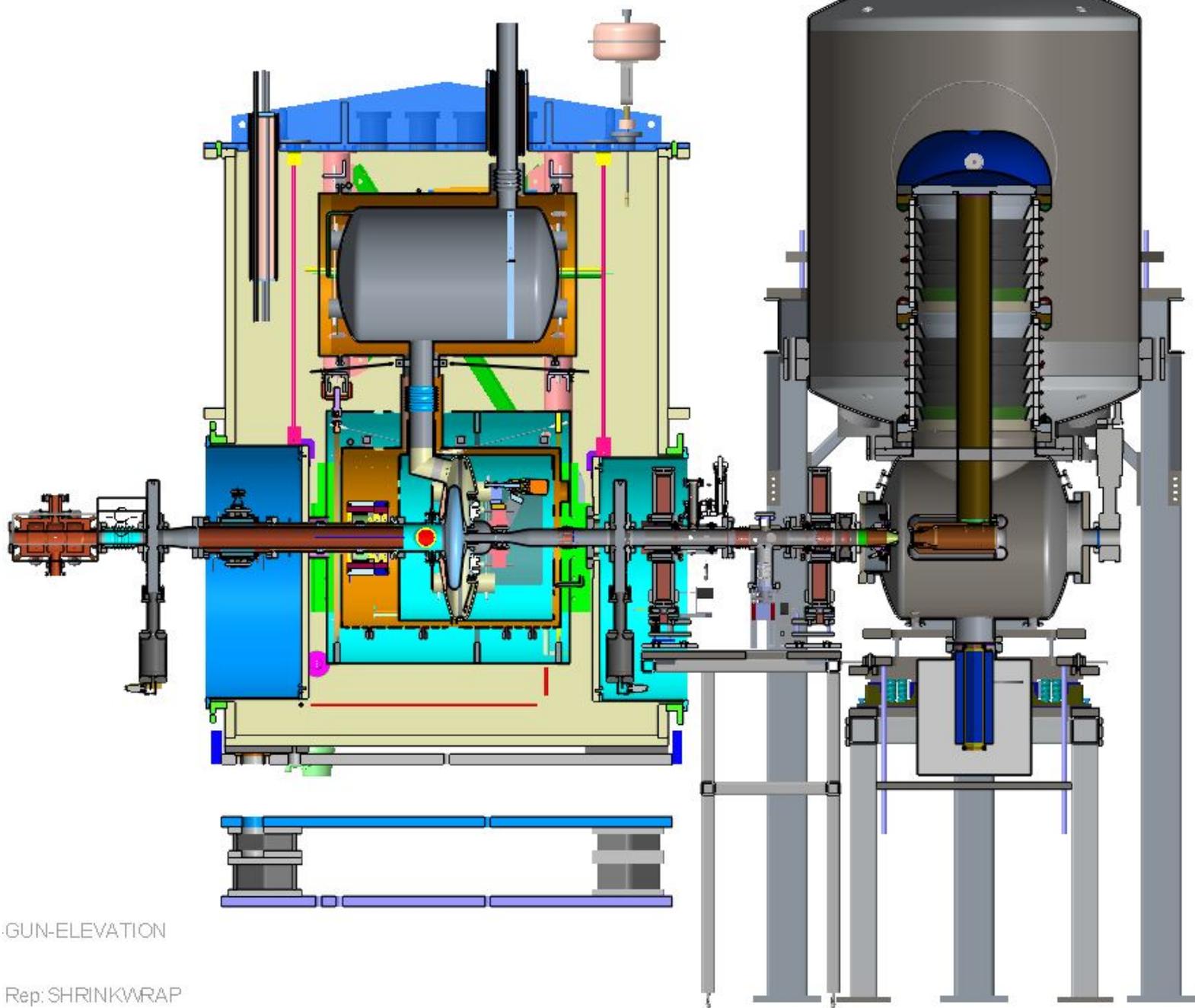
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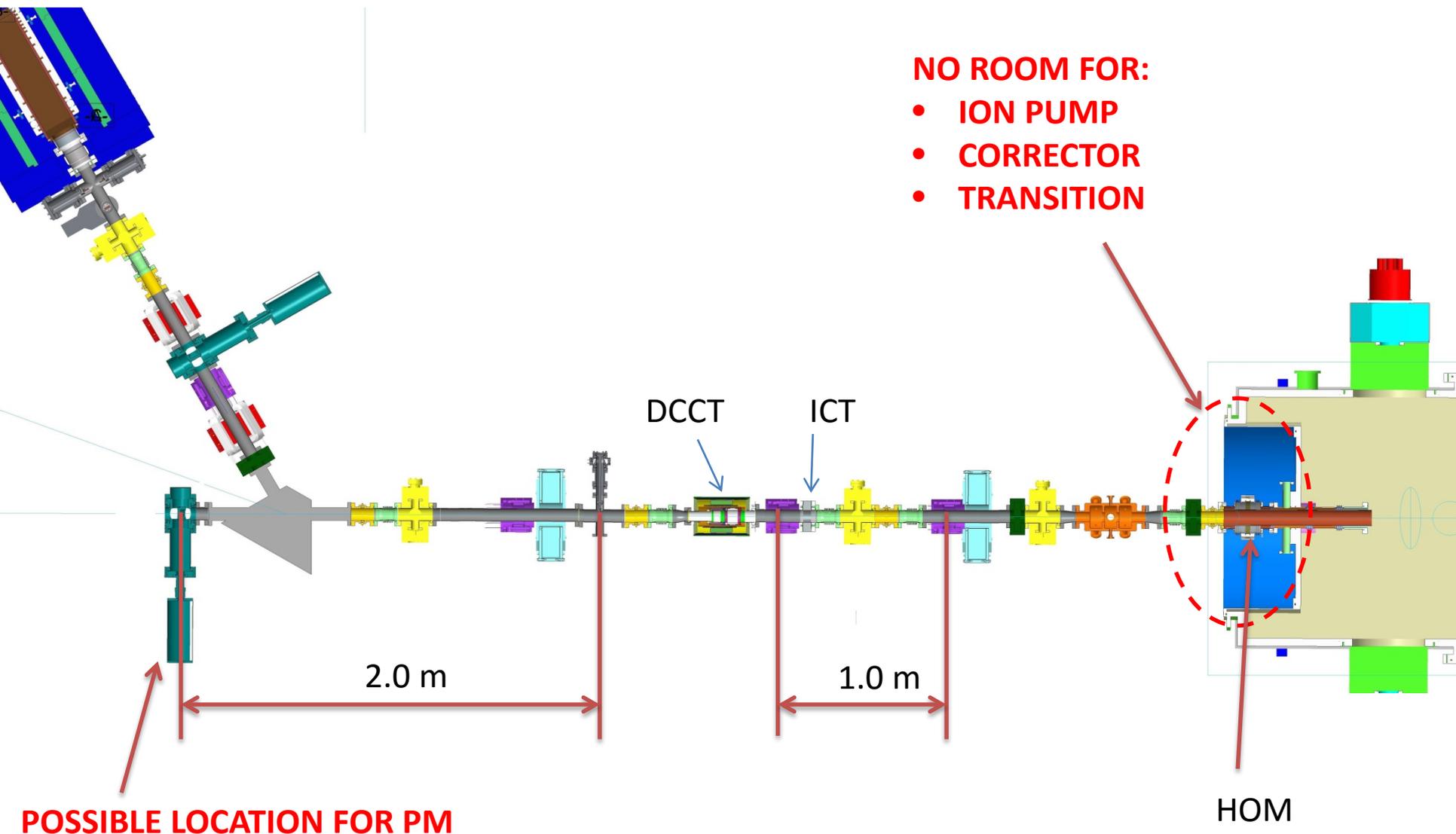
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As I understand the PM emittance measurements monitor could be pushed behind the magnet and no one screams about it. Greet.

There are few comments though:

1. Please correct me if I'm wrong but in final configuration (2017) there will be pumps as part of booster assembly. May be it will be enough.

Do we need additional pump between booster and 3rd harmonic cavity in this case? **This should be verified by vacuum group.**

1. For gaining more room we could put correctors around bellows or/and around transitions.
2. For the same reason could we use profile monitor cross and/or slit cross to attach pumps instead of stand alone ports?
3. If there is room behind gun. One of the option could be to move booster and gun as one piece from the 3rd harmonic cavity and clear this area.

Thanks,
Dmitry.

