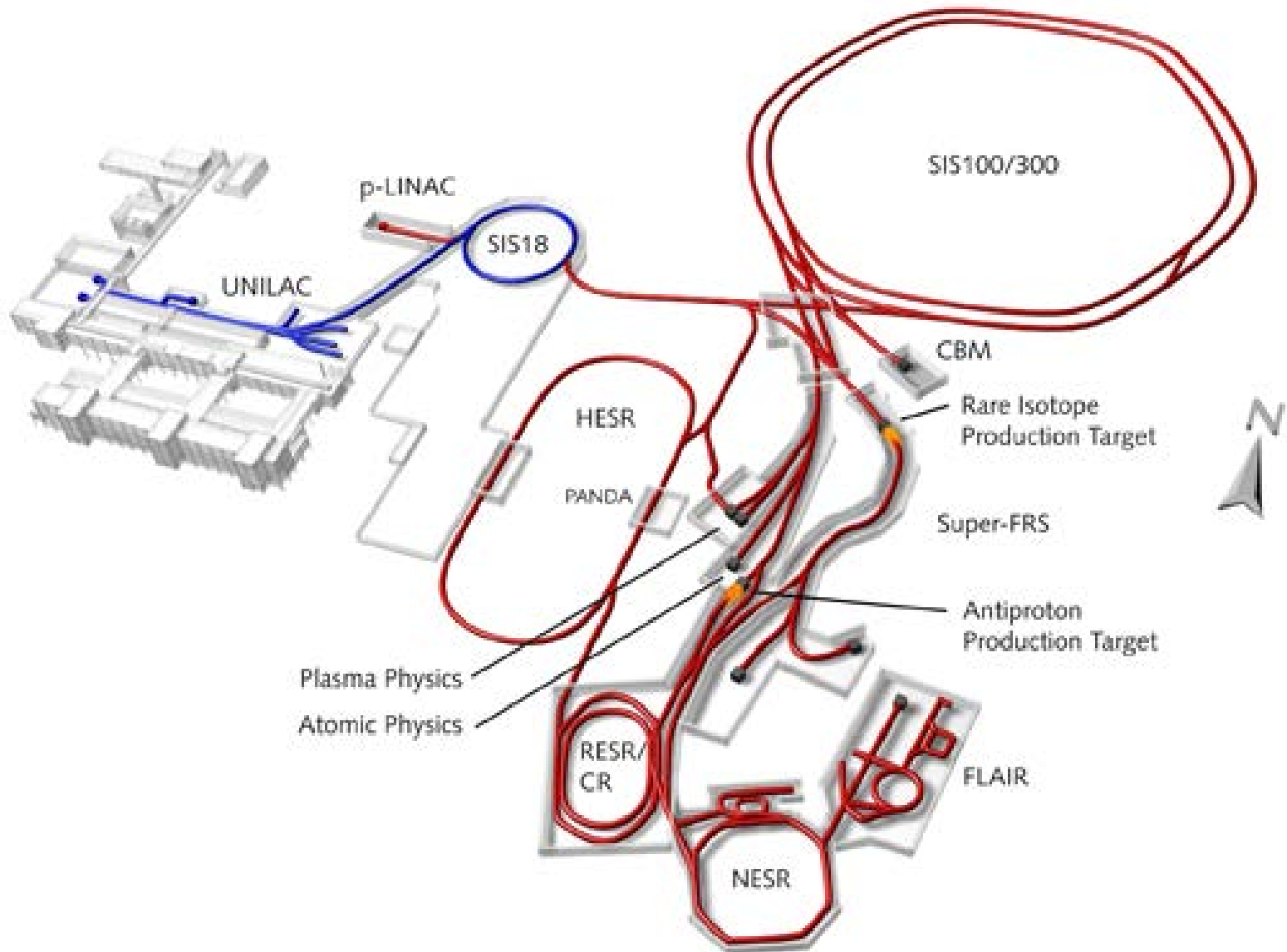


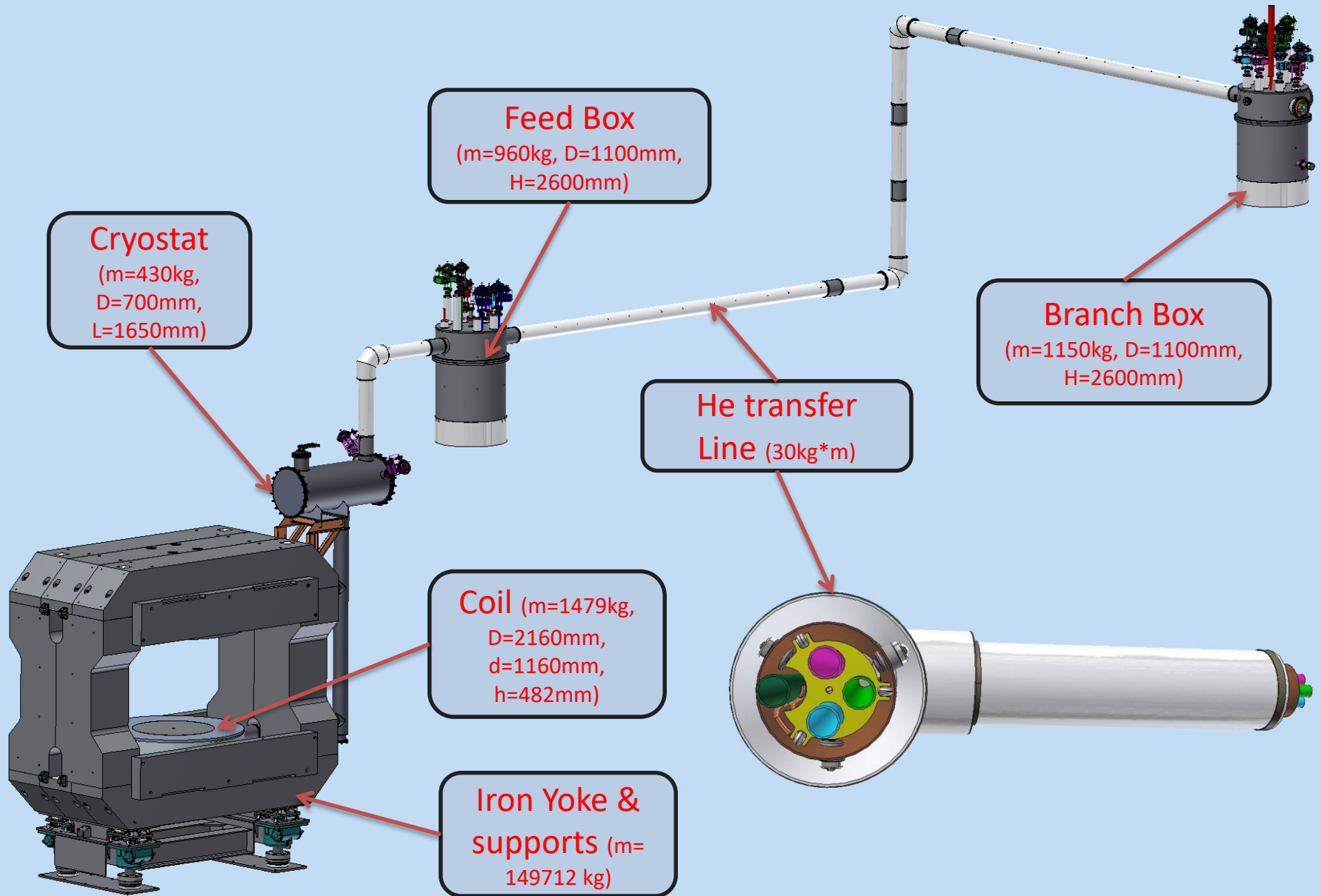
CBM. Design of cryogenic system

11.2019, BINP, M.Kholopov, A.Bragin

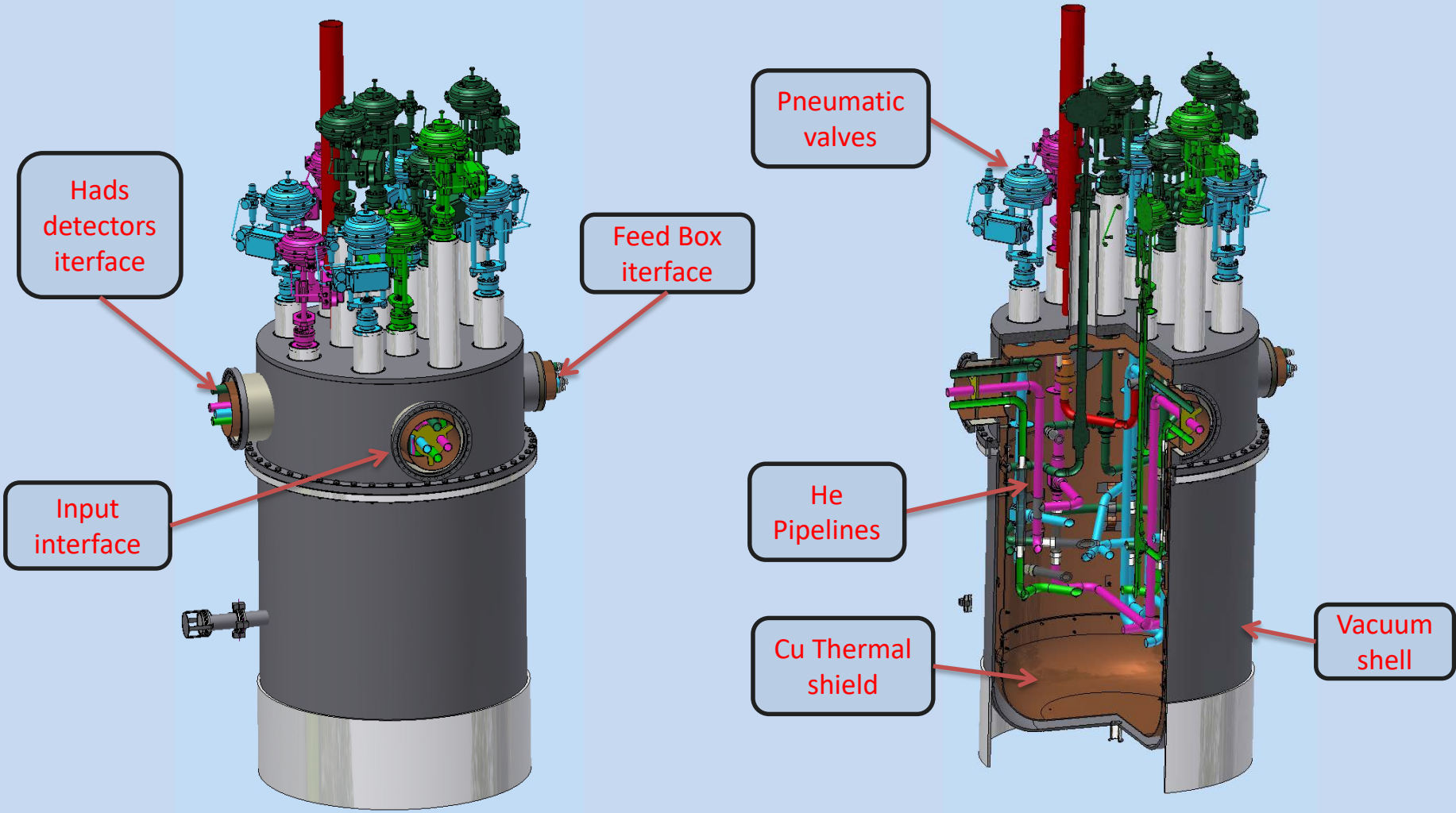
FAIR



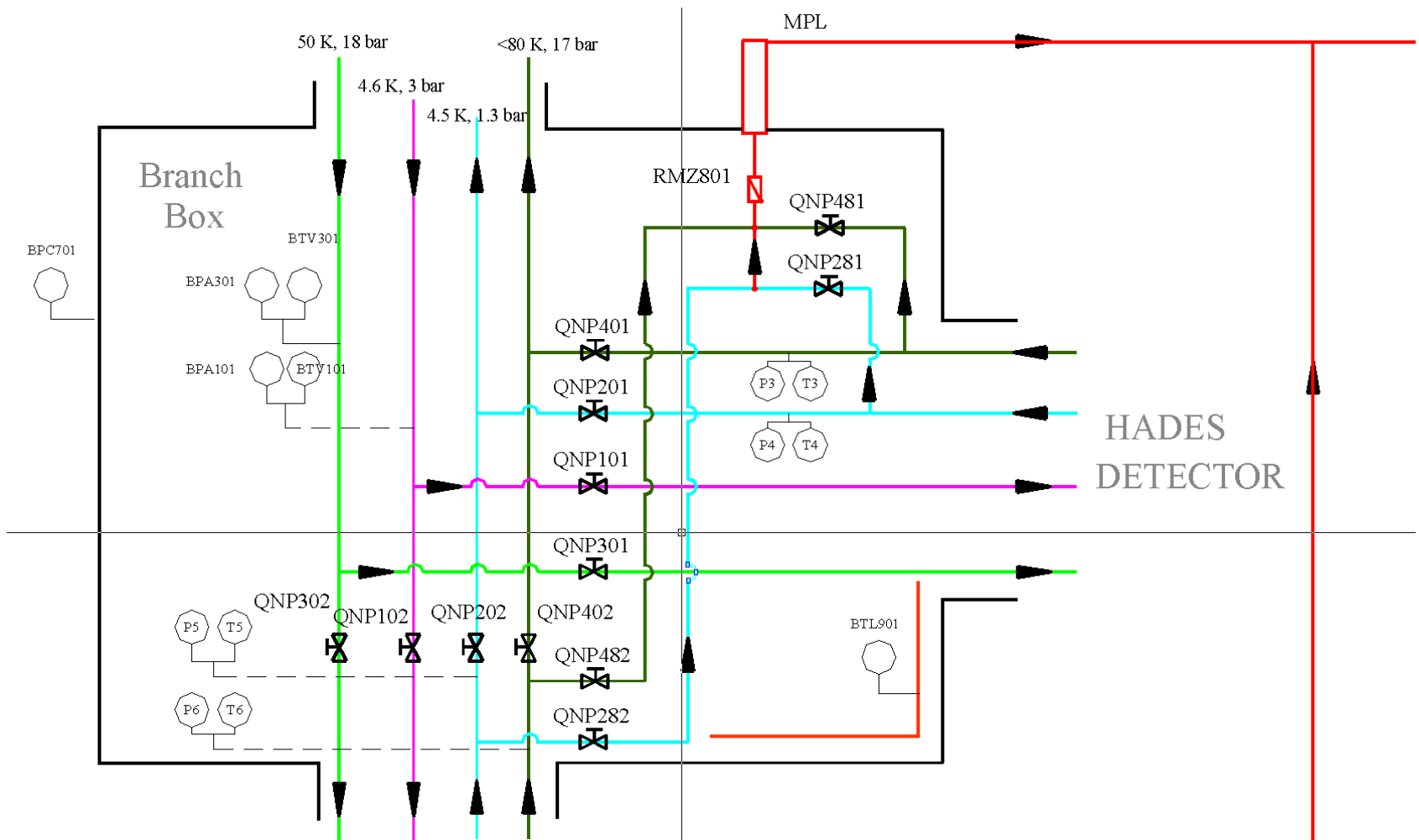
3D Model of CBM Magnet and cryosystem



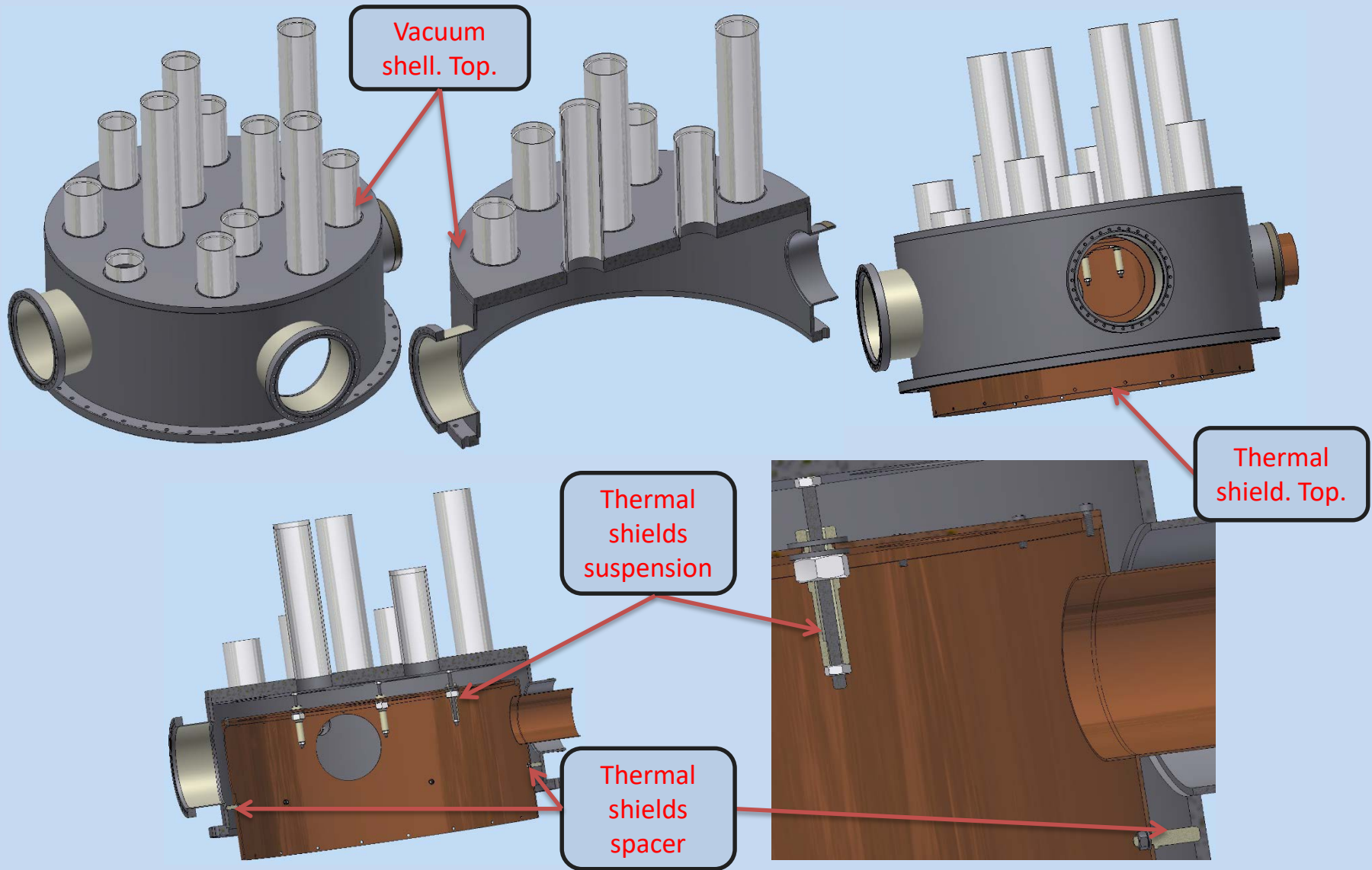
3D Model of CBM Branch box



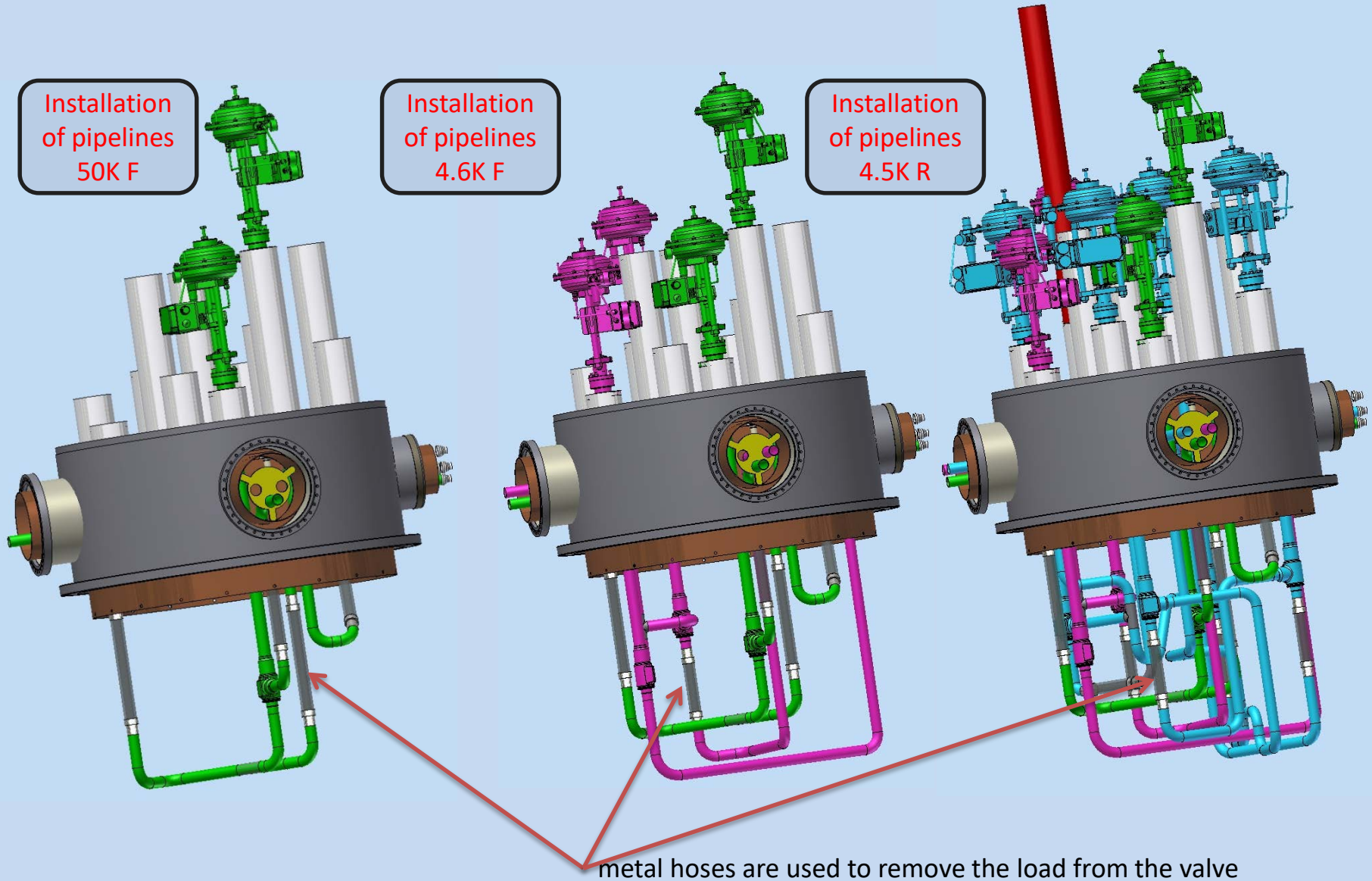
Flowscheme of CBM Branch box



Stages of Assembly of the CBM Branch box



Stages of Assembly of the CBM Branch box

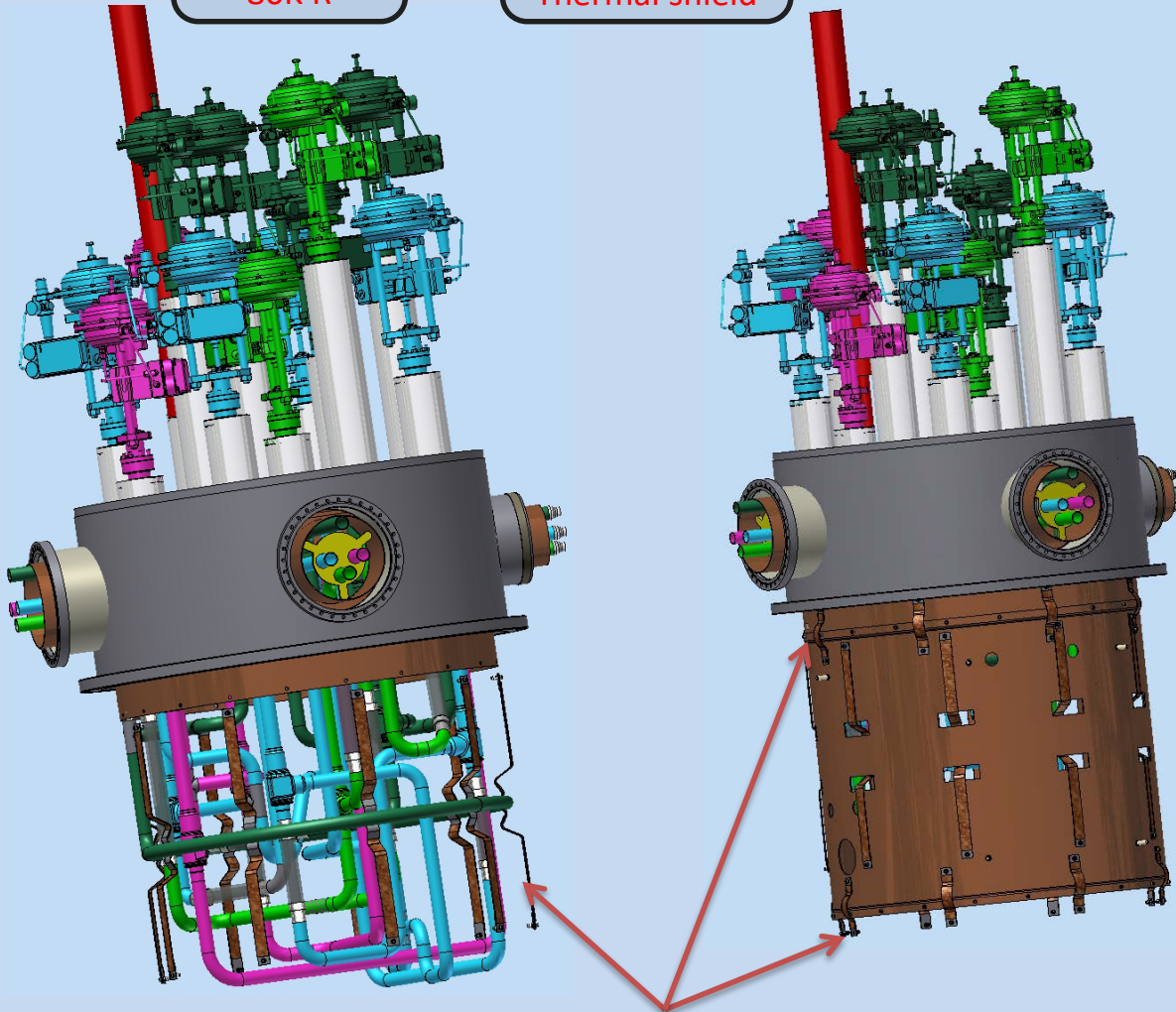


Stages of Assembly of the CBM Branch box

Installation of pipelines 80K R

Installation of Middle Thermal shield

Fastening of thermal bridges and connection of Thermal shield

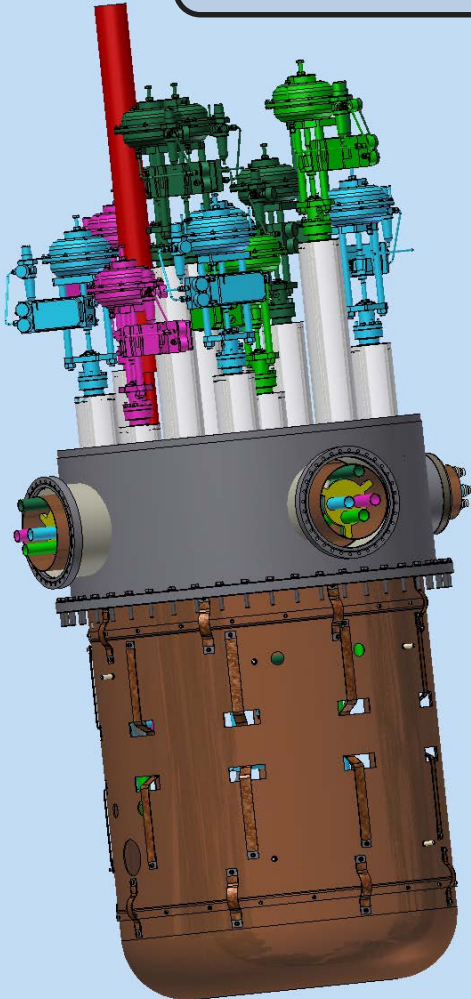


Thermal bridges

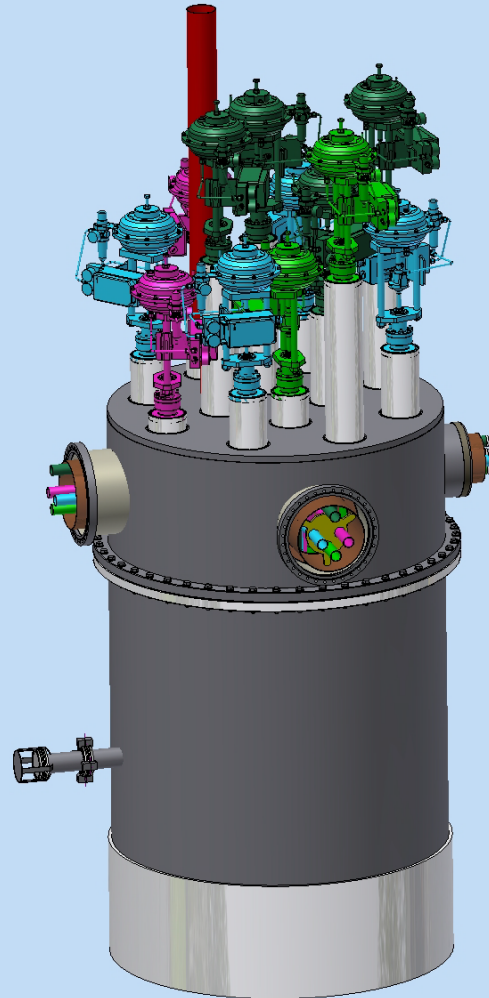
Threaded rivet M6

Stages of Assembly of the CBM Branch box

Installation of the
bottom of
Thermal shield

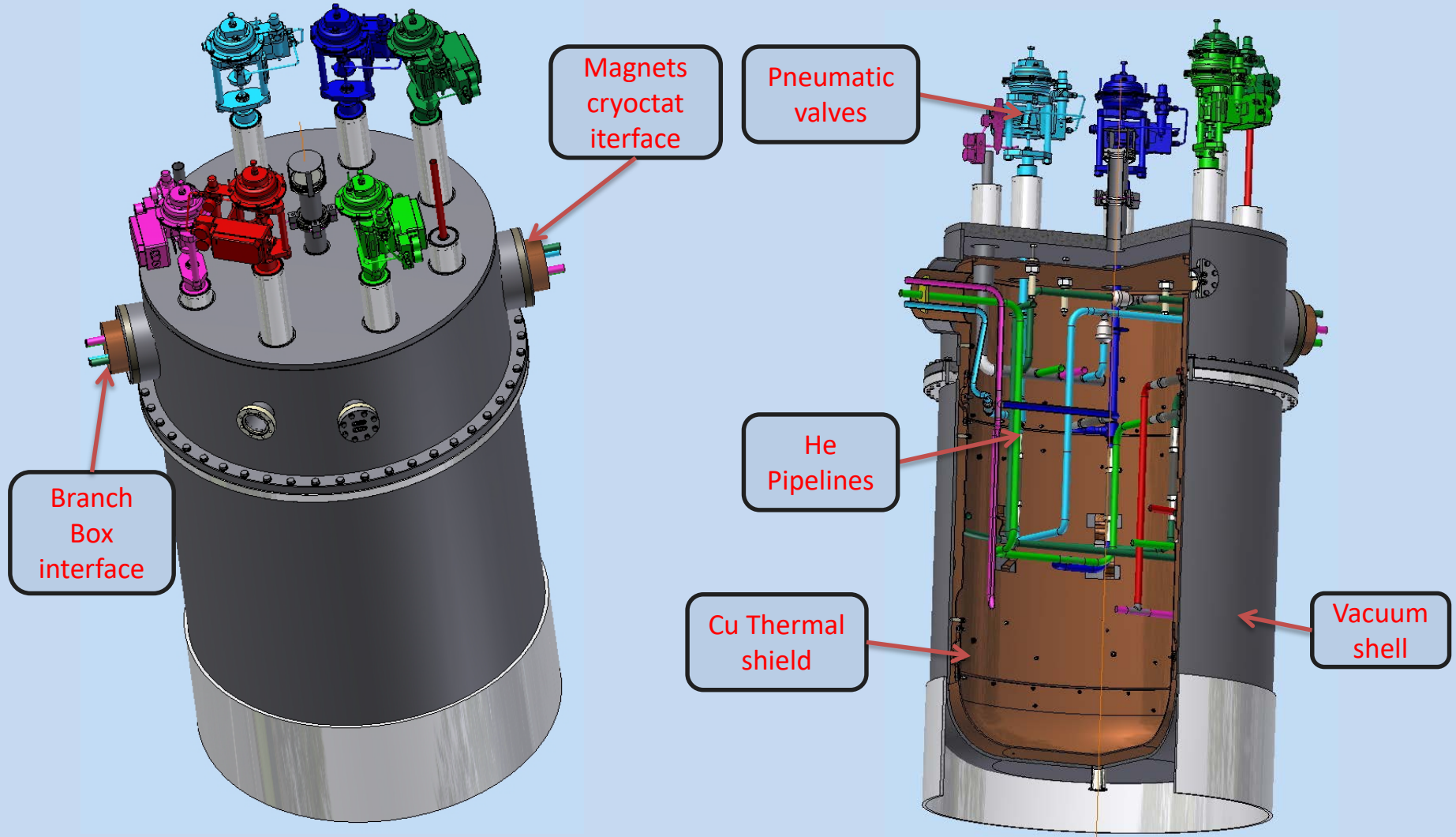


Installation of the
bottom of
Vacuum shell

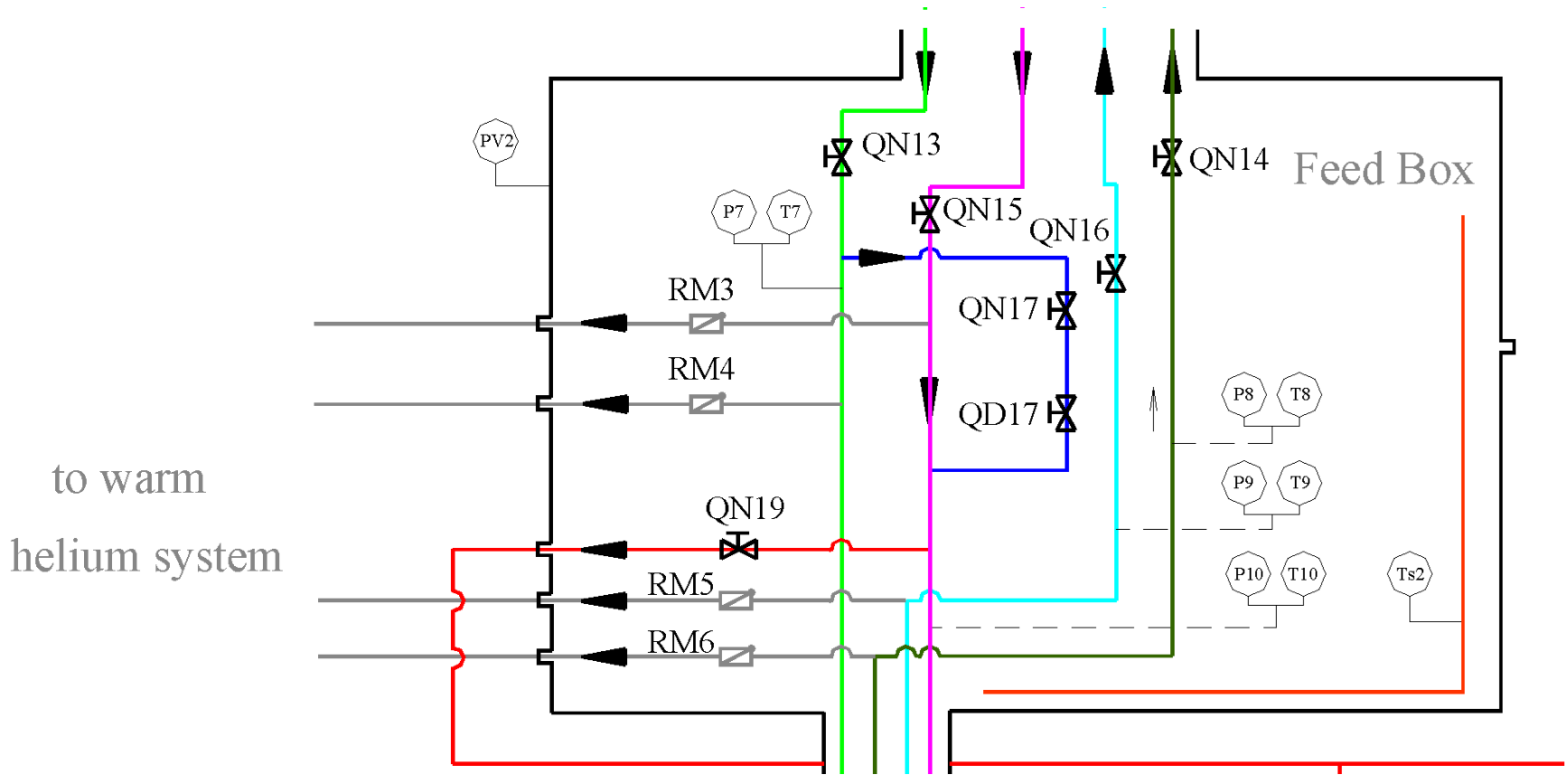


At all stages of Assembly,
the rules of vacuum
hygiene are fulfilled.
During Assembly of the
Helium lines is checked
for the vacuum and
pressure.

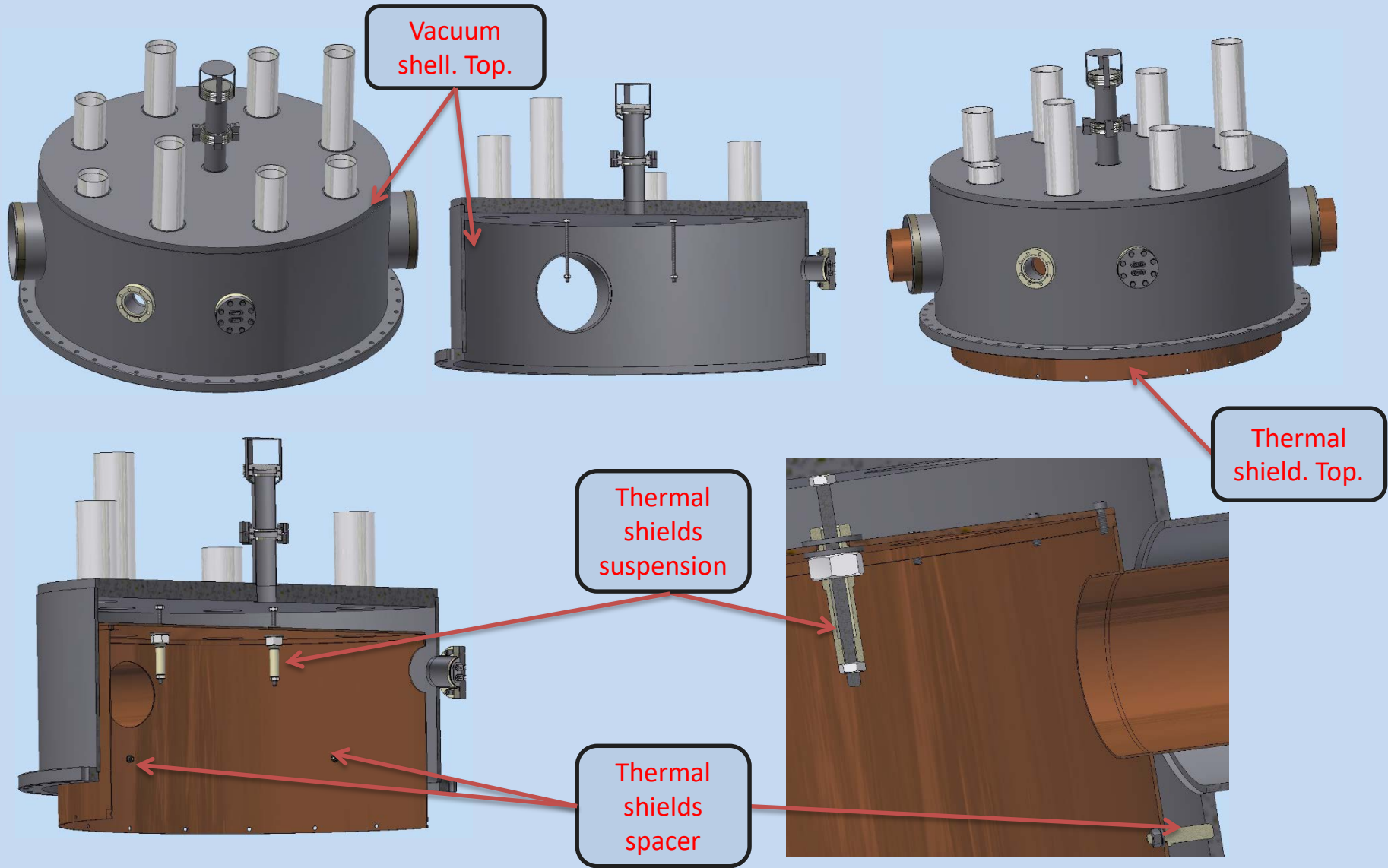
3D Model of CBM Feed box



Flowscheme of CBM Feed box



Stages of Assembly of the CBM Feed box

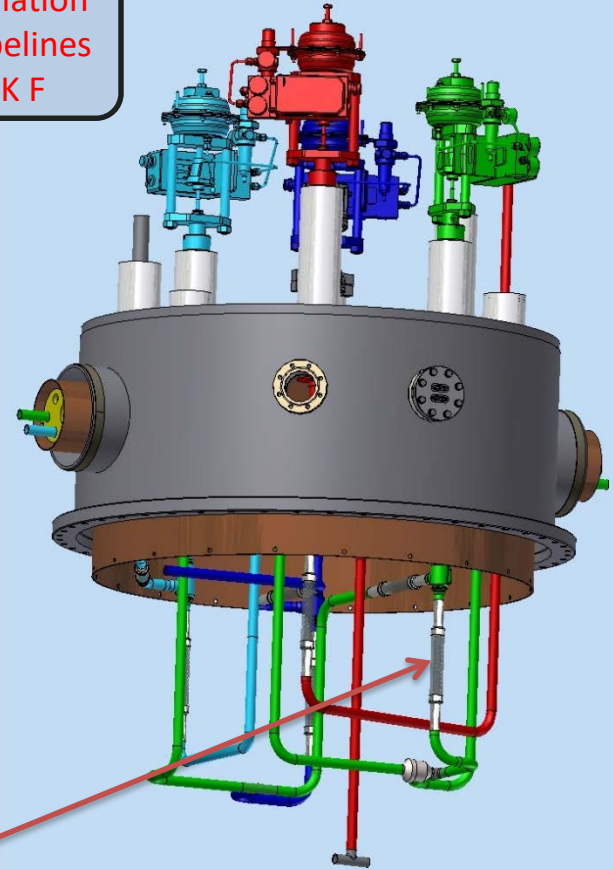
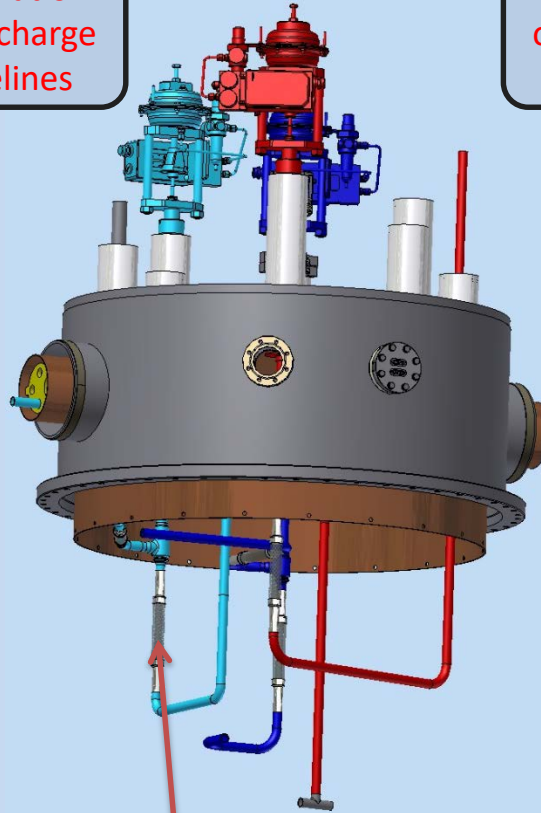
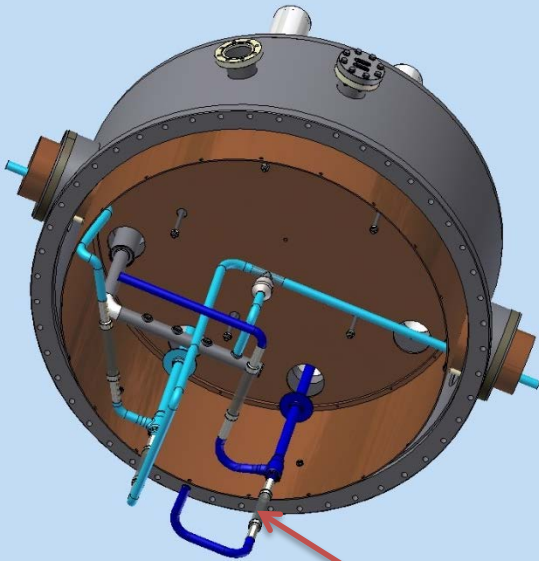


Stages of Assembly of the CBM Feed box

Installation of pipelines
4.5K R

Installation of discharge pipelines

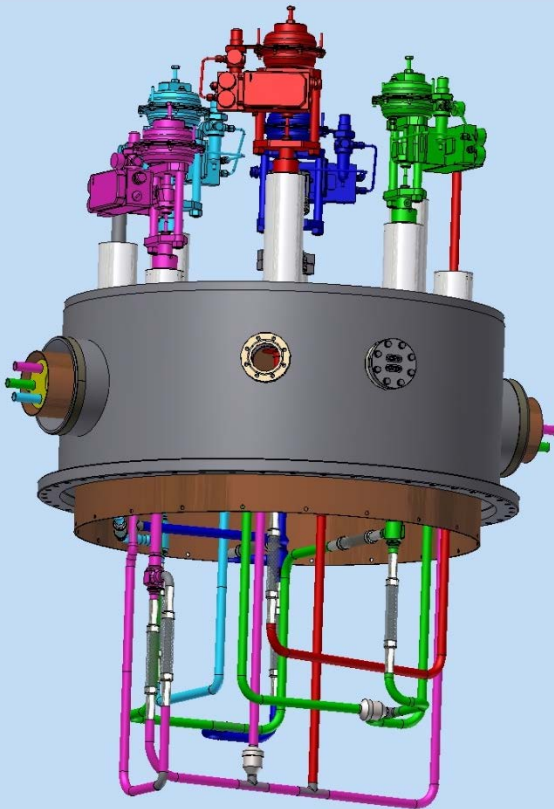
Installation of pipelines
50K F



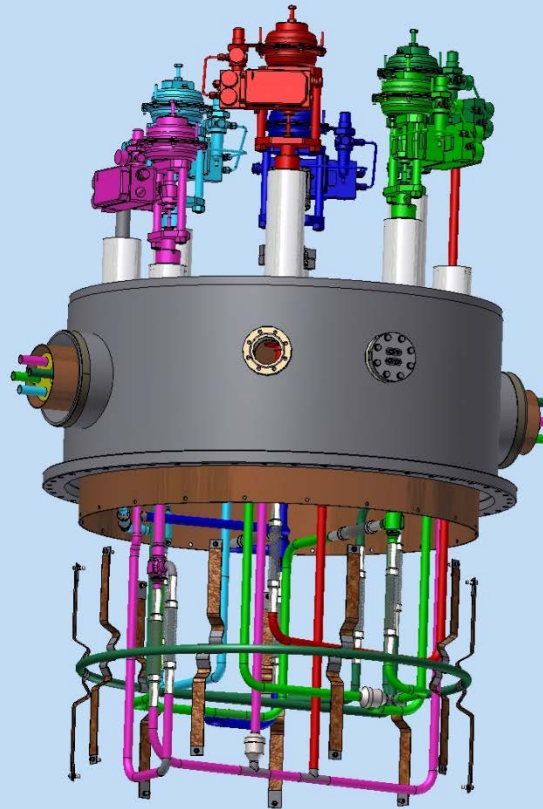
metal hoses are used to remove the load from the valve

Stages of Assembly of the CBM Feed box

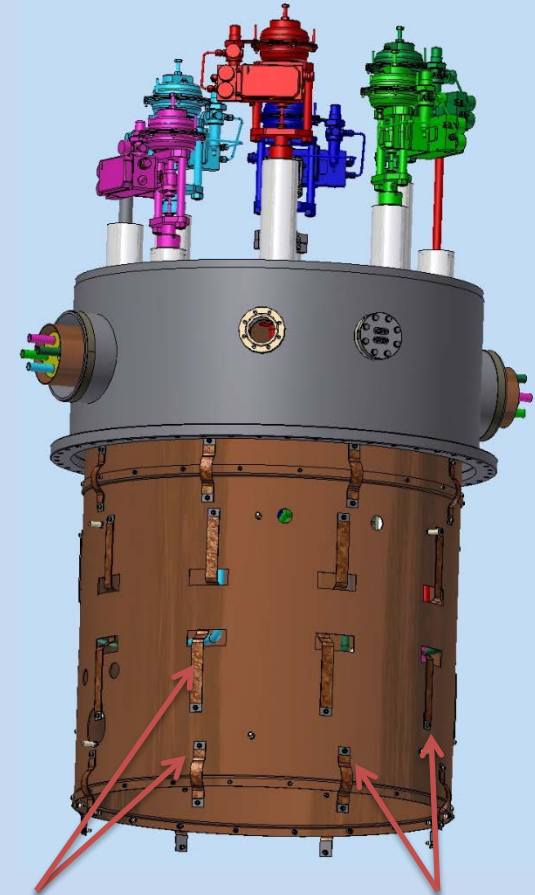
Installation
of pipelines
4.6K F



Installation
of pipelines
80K R



Installation of
Middle
Thermal shield

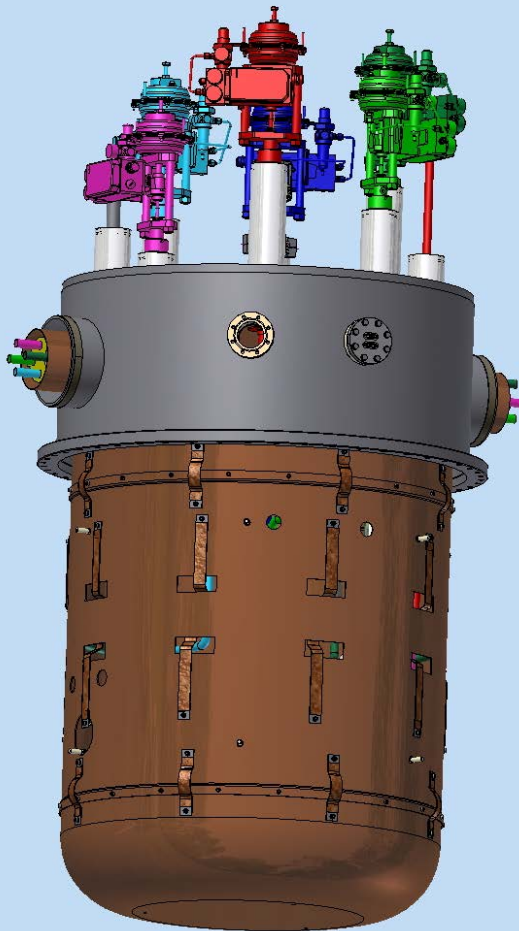


Thermal bridges

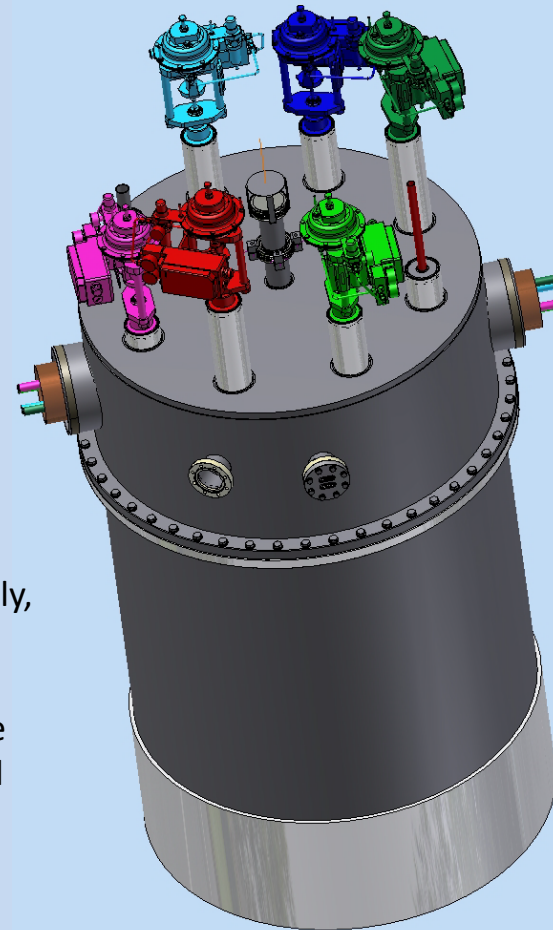
Threaded rivet M6

Stages of Assembly of the CBM Feed box

Installation of the
bottom of
Thermal shield



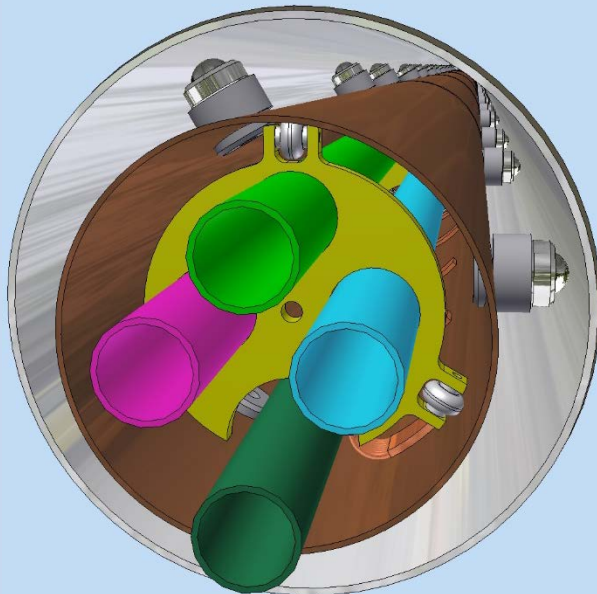
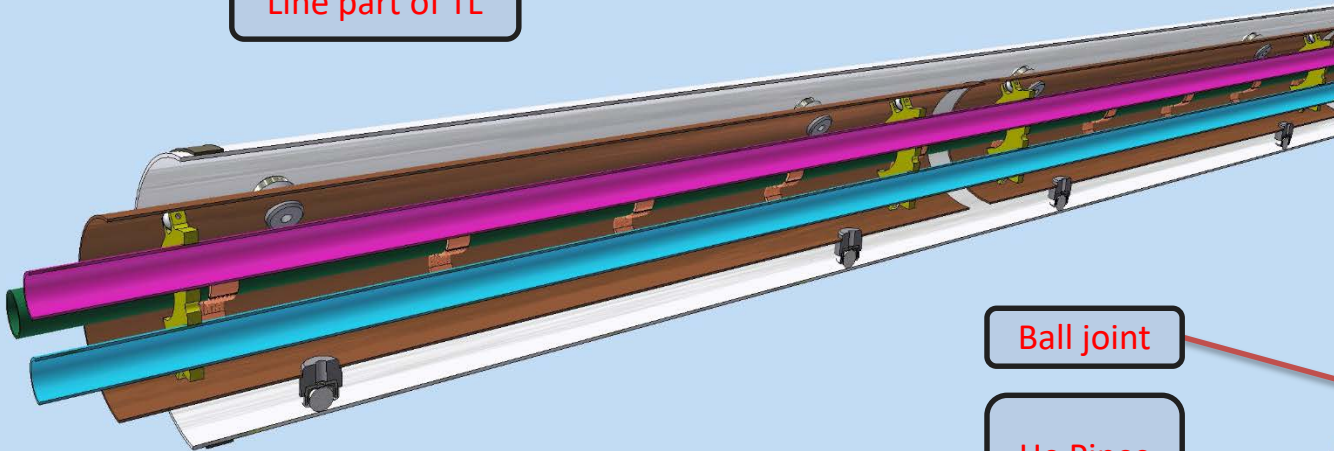
Installation of the
bottom of
Vacuum shell



At all stages of Assembly,
the rules of vacuum
hygiene are fulfilled.
During Assembly of the
Helium lines is checked
for the vacuum and
pressure.

3D Model of CBM Transfer line

Line part of TL



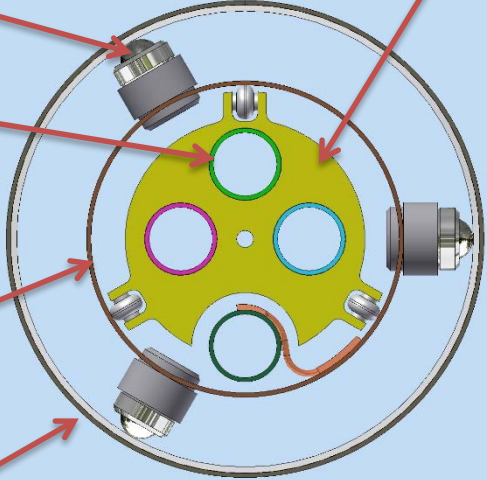
Ball joint

He Pipes

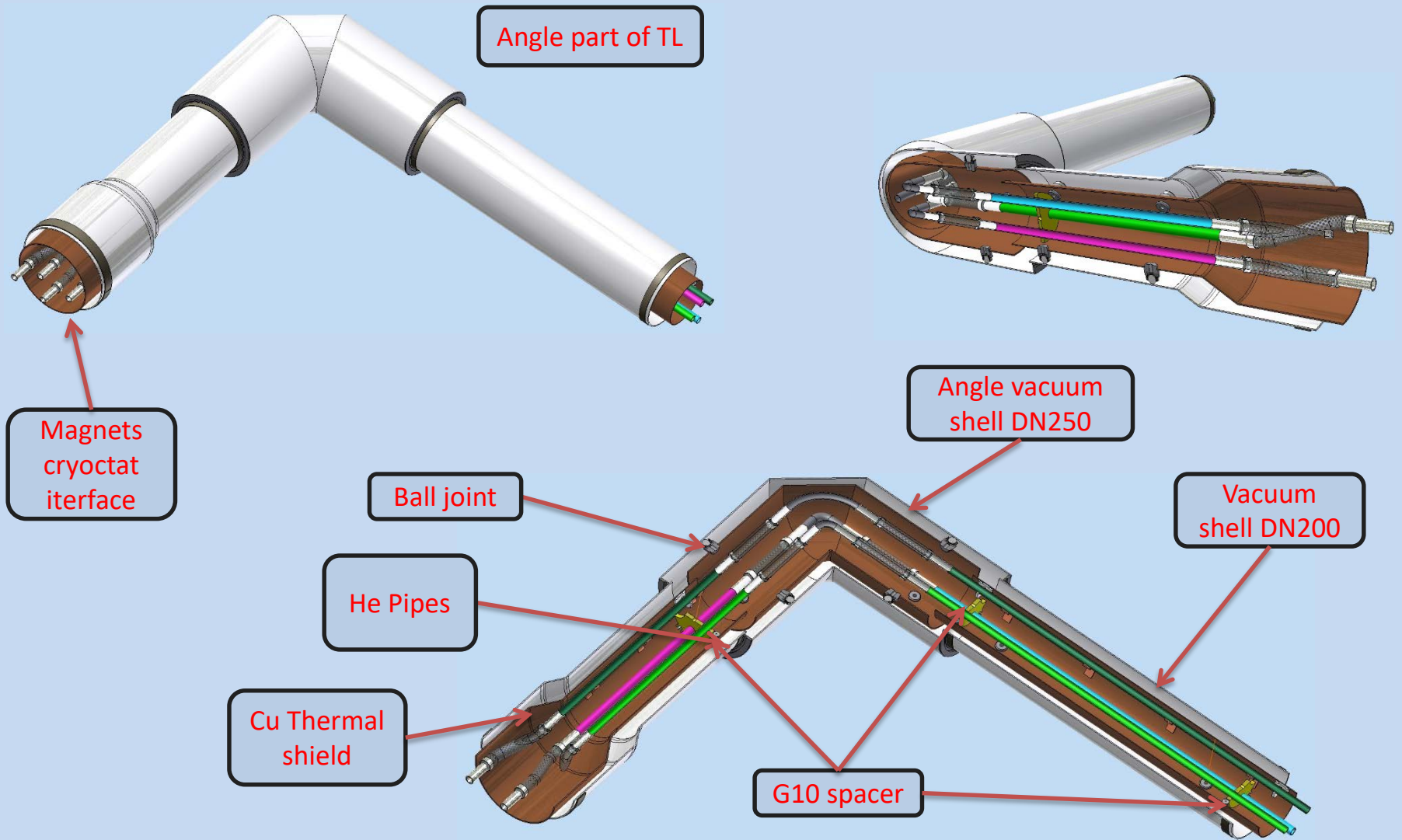
Cu Thermal shield


Vacuum shell DN200

G10 spacer



3D Model of CBM Transfer line





Thank you for your
attention!