

Cryogenic Infrastructure Installation

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Order of installation:

- 0) inspection of copper plate position (time ~ 2 days)?
- 1) Rn shroud (available), mounting from clean room (time ~ 1 week)
- 2) piping inside the cryostat (available), mounting from clean room (~ 1 week)
- 3) piping outside the cryostat (~1 week):
 - some small parts + one DN50 pipe not yet ready,
 - last DN200 pipes in production,
 - 2.6 m³ ullage volume (1.2 m diameter, 2.6 m height) available
- 4) DN630 shutter mounting (arrives week 13 July at LNGS)
- 5) radon emanation test of entire assembly (2-3 weeks)
- 6) electrical installations of PLC
- 7) PLC commissioning + MODBUS connection to LNGS safety system
- 8) water connections to exhaust gas heater + water backup system
- 9) pneumatic connections (pressurized N2 from storage tank)

--> ready for filling of cryostat