

nTOF preliminary equipment proposal

Process control and instrumentation

- 1) UNICOS (Schneider) ?, ABB ?, LabView ?
 - control from distance
 - proposed is ISR building 230 or 288 from which
- 2) Instrumentation in conformity with CERN standards

Equipment to be cooled

- 1) Pulsed magnet

US

Proximity equipment

- 1) DVB valve box
 - feed valve with level control
 - by-pass valve of TFL before recooling
 - drain valve
 - pumping line valve
 - valve for nitrogen gas out
 - temp sensors
 - flow meter

- 2) vacuum pump for insulation vacuum of magnet
- 3) vacuum pump for reducing pressure in bath
- 4) heat exchanger or el. heater

CERN

Intermediate Infra

- 1) transfer line for cooling and filling
- 2) exhaust for cold nitrogen gas during cooling and filling
- 3) pump line (warm)

External Infra

- 1) LN2 reservoir next to vertical shaft

Safety

general

- 1) cryogenic safety
- 2) radiation safety
- 3) access

contacts

TIS
TIS

Operation

- 1) cryogenics “team”