

# COMPASS Polarized Target

## PT-status @ CERN

Jaakko Koivuniemi

### Contents:

1. Pumping system
2. Cryostat
3. PT-platform
4. Control room

### PT outside of CERN:

1. Target material @ Bochum

<http://www.ep1.ruhr-uni-Bochum.de/poltarg/Welcome.html>

2. PT-magnet @ Oxford

<http://macna4701.cern.ch/index.html>



## IN PROGRESS

- electrical wiring check of roots blowers
- cooling water for the pumps
- testing of roots blowers
- wiring and testing of  $^4\text{He}$  pumps

## TODO

- still gate valve to concrete wall
- $^3\text{He}$  recovery line and cavity screen line
- finishing the circuit in the pump room
- replacing sieve filters and charcoal
- leak testing of the circuit
- testing of dilution evacuation and  $^3\text{He}$  recovery pumps



## DONE

- leak testing at room temperature
- flow tests at room temperature

## IN PROGRESS

- target cell and spare target cell
- spare 70 mm mixing chamber
- new 45 mm mixing chamber

## TODO

- cryogenic leak test with LN<sub>2</sub>
- checking the sintered heat exchangers
- cavity end foil (100  $\mu\text{m}$  Cu)
- fixing system for cavity
- final  $\mu$ -wave leak test



## DONE

- $^4\text{He}$ -transferline and buffer dewar
- cold box tested: 75 l/h to buffer dewar

## IN PROGRESS

- GHe recovery to cold box
- power cabling

## TODO

- pumping tubes from concrete wall to platform
- vacuum pumps for magnet, cryostat and emergency & dilution evacuation
- screen and separator flow controllers
- $^4\text{He}$  gas supply
- cable trays from concrete wall to platform



DONE

- most of the racks are in place

TODO

- installation of microwave table
- pulling of the cables
- checking of instruments

