

Status Forward Endcap EMC

PANDA Collaboration Meeting 22/1, GSI, June 2022

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Submodule Manufacturing

- Latest numbers:
 - 242 of 268 submodules built so far (90%)

Status Forward Endcap EMC



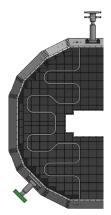




Side and front cooling finished and installed













- Polyamid hose, thermally shaped (sand filled, aluminum form of one quarter)
- Fine tuning of shape by lead blocks prior to glueing (alignment along lines drawn)

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- UV ray (thermal) curing, radiation hard, high- λ adhesive (Dymax 6-621-GEL): 650 Euros
- Gel coat nail lamp for fast curing (minutes): 20 Euros



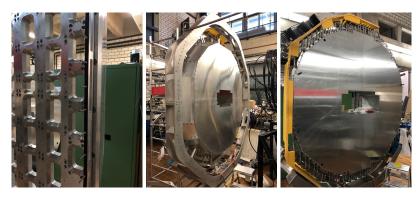


- Connection of front cooling to supply/return lines inside cold volume (T-distributor) via flex pipes
- Connection done when front lid not fully installed

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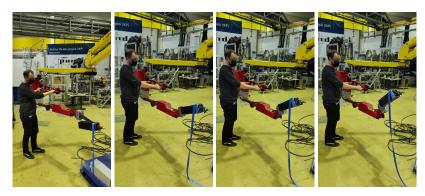
- Supply lines (feeding, return) still in preparation
- Some more cooling issues to be presented by Sebastian



- Front and back lid finished
- Rubber seals installed

Thomas Held

Manipulator Arm Tests, FZ Jülich



- Pneumatic, fully balanced mounting tool (CMS, CERN)
- Tessting suspension and movement of submodules

Manipulator Arm Tests, FZ Jülich



Current Time Schedule for Finishing FWEC EMC

- Submodule production finished within 3 months from now
- Transport to Jülich:
 - Endcap plus frame
 - HV crates
 - Submodule test stand
 - Chiller etc.
 - (Summer 2022)
- Submodule mounting: x months(?)
- SADC crates:
 - Cooling tests finished
 - Mounting in Jülich until September 2022
- Ready for COSY beam: March 2023

