

➤ **First D&I W.Gr. meeting in Strasbourg July 9-10**

- Mechanical Design
- Infrastructure
- R&D on other Ge detectors

None of these Teams did yet meet alone

➤ Infrastructure

- Grounding
- HV and LV power supplies**
- LN2 cooling system
- UPS
- Slow control ?**
- Cabling and **holding structure for front-end electronics**
- Lab. Installations (AGATA site, **XYZ tables**,...)
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- Participating labs
 - ❖ Daresbury, IReS, GSI, Liverpool, LNL, Padova, Saclay

➤ Items discussed

Detector cooling

❖ Number of fillings per day:

- ✓ **Low power consumption FETs (20mW)**
- ✓ **Thermal resistive cables -> possible pbs on pulse shape ?**
- ✓ **Continuous LN2 flow**
- ✓ **LN2 full dewars**
- ✓ **Buffer vessels on top of the array**

❖ Measurement during the fills ? Note that permanent bubbling due to high-power consumption

HV and LV power supplies

- ❖ Individual hardware (no software) shutdown -> GS experience
- ❖ Hardware temperature threshold not enough -> MINIBALL
 - ➔ direct measure of LN2 in dewar ?

Diagnostics and remote control needed

□ XYZ tables

❖ Orsay

- ✓ 20 μ m pitch on 30cm
- ✓ Collimator $\Phi=1.5$ mm + laterale W collimators 200 holes/cm², $\Phi=200$ μ m
- ✓ ¹³⁷Cs (10mCi) source + new
- ✓ 6 Gage ch. 12-14 bits, 50MHz/100MHz

❖ Liverpool

- ✓ 50 μ m pitch on 30cm
- ✓ Collimator inserts $\Phi=1, 2, 4, 6$ mm + laterale slits 2mm x 10cm
- ✓ ¹³⁷Cs (0.3mCi) and ⁵⁷Co (0.2mCi) sources
- ✓ 40 GRT4 ch. 14bits, 80MHz
- ✓ 6 days scanning in singles for 1681 positions, ~300 times more in coinc.

❖ GSI – New concept

- ✓ NO XY table, NO front collimator
- ✓ ²²Na source with a PET det. for direction determination, 20 kHz in Ge det.
- ✓ Lateral collimator with 6 slits filled with plastic det. (segmented)
- ✓ **About 3days for full scanning !**

➤ Interaction Team

➤ Perspectives

- Define clearly the border responsibilities and interaction vs other Teams**

- HV and LV power supplies (grounding, slow control,...)
- LN2 cooling system (cooling solutions, slow control,...)
- Cabling and holding structure for front-end electronics
- Lab. Installations (GSI upgrade, XYZ tables,...)