

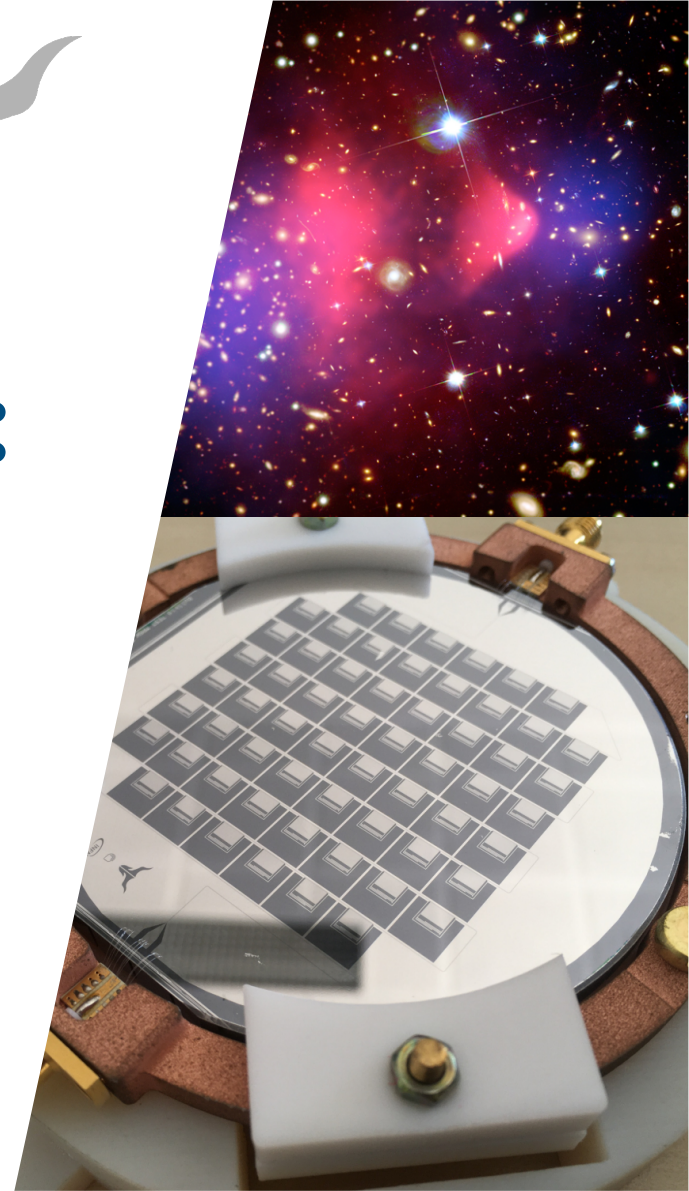


Demonstrator @ Sapienza: updates

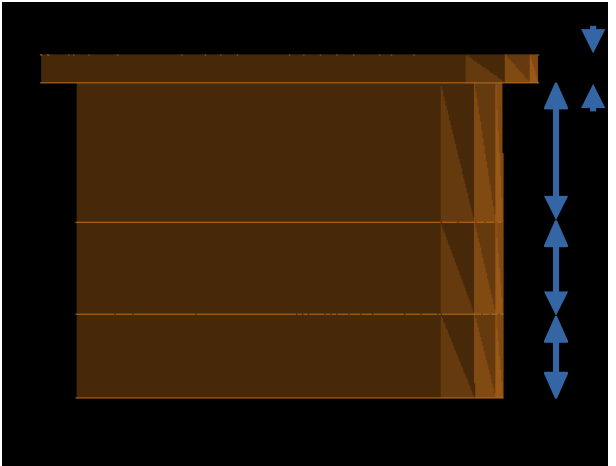
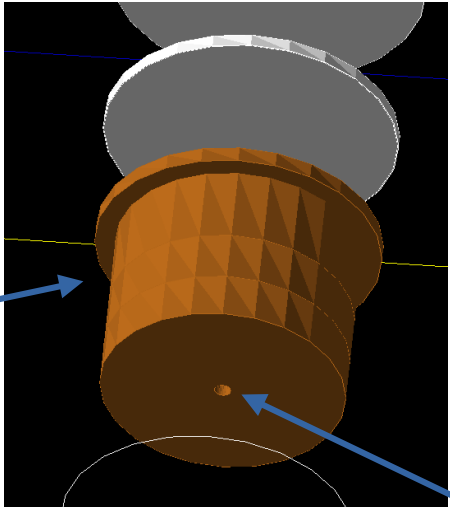
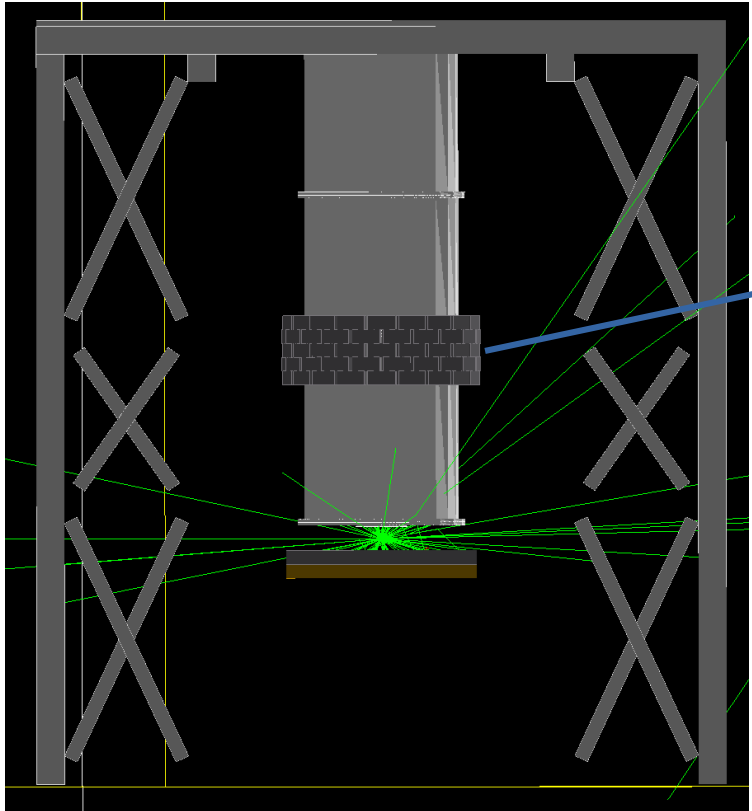
Finalized the configuration and
some results

Matteo Folcarelli on behalf of the collaboration
Università La Sapienza di Roma, INFN - Roma 1

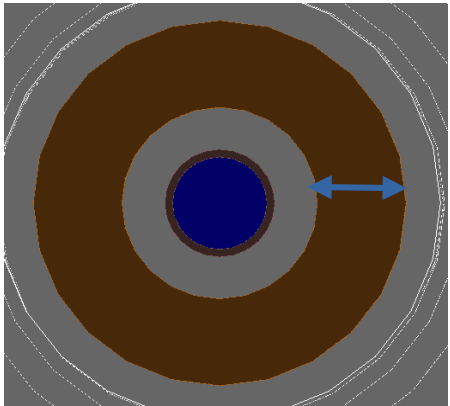
March 11, 2026



Cryostat and shielding

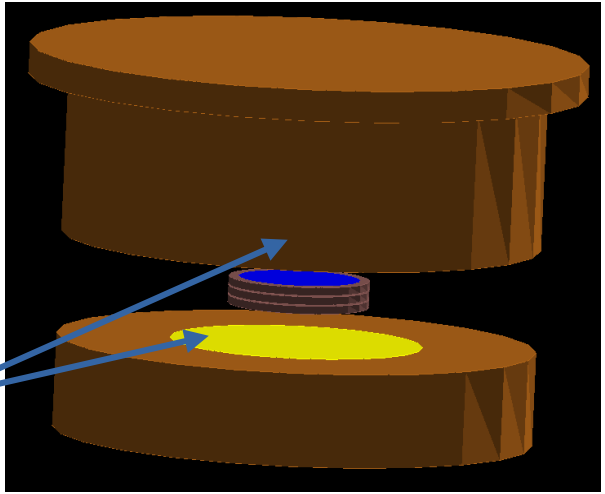


2 cm
10 cm
6,6 cm
6 cm



1,5 cm
radius
hole

7,1 cm

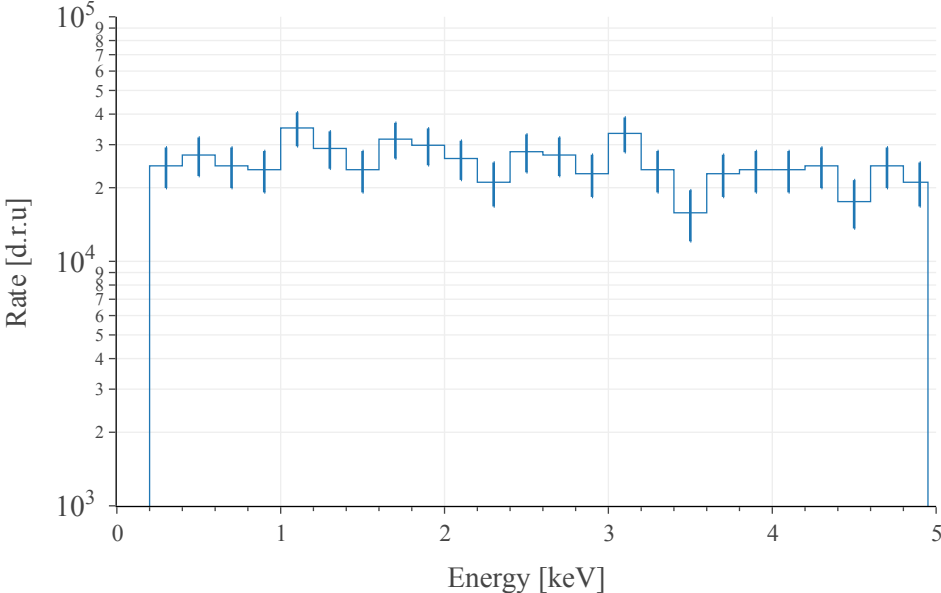


La foil
Top &
Bottom

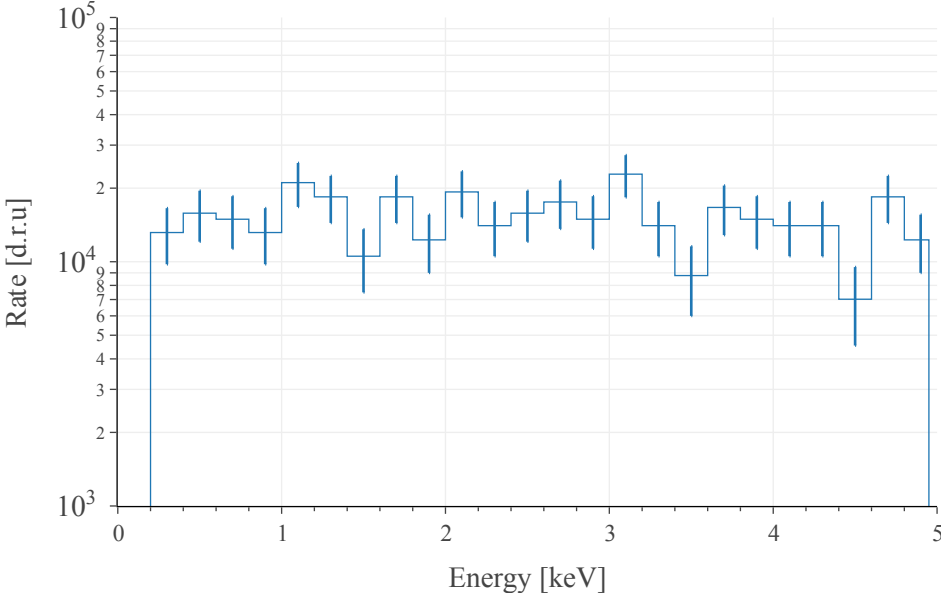
Results from external gammas

Still the results with a 1cm radius hole

Demonstrator Sapienza - external gammas - Single wafer hit

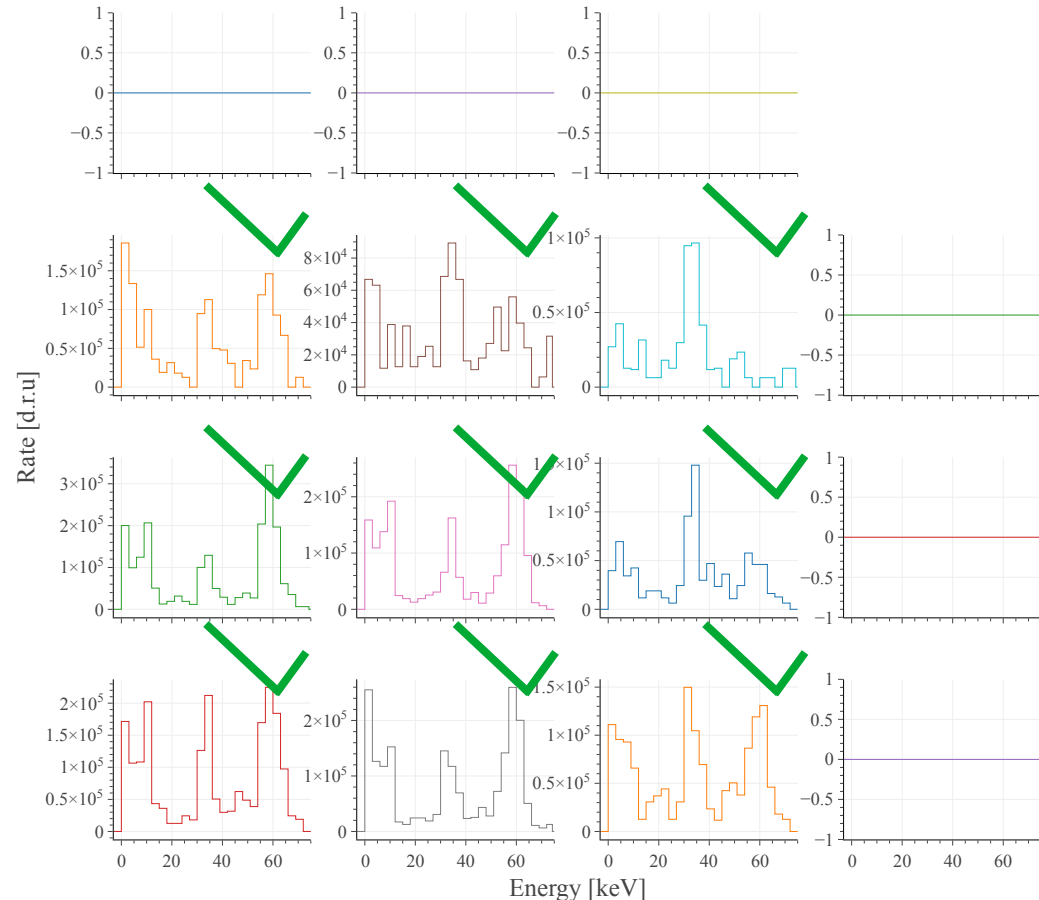


Demonstrator Sapienza - external gammas - Full anticoincidence



Calibration with Lanthanum target - Bottom

Bottom Wafer

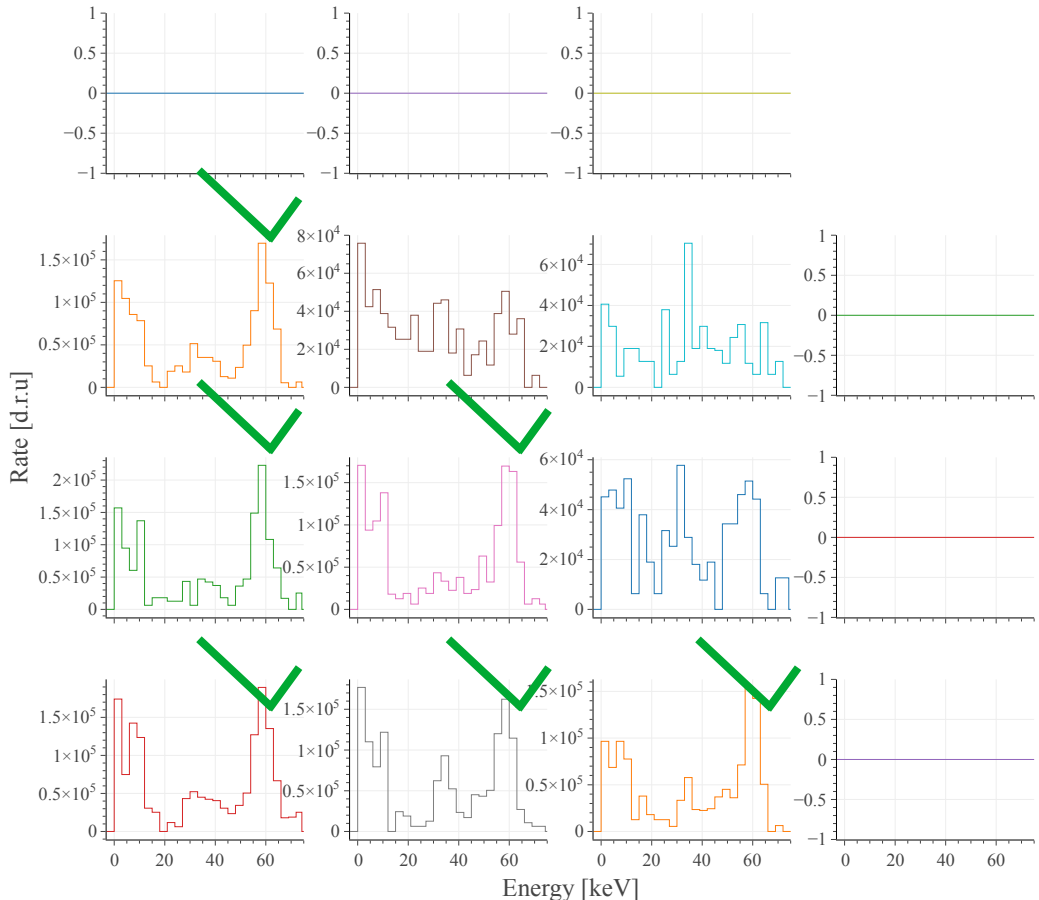


250 um of lanthanum foils

5 hours of calibration
5% of resolution

Calibration with Lanthanum target - Center

Central Wafer

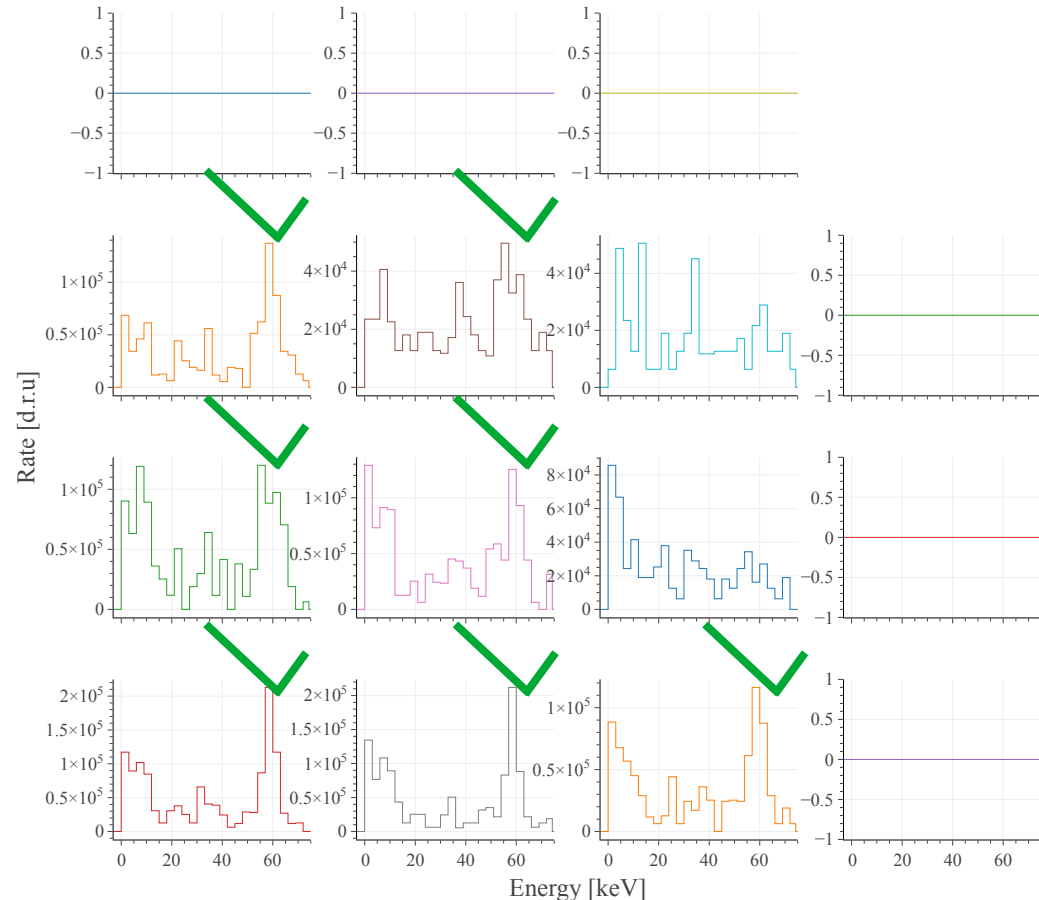


250 um of lanthanum foils

5 hours of calibration
5% of resolution

Calibration with Lanthanum target - Top

Top Wafer

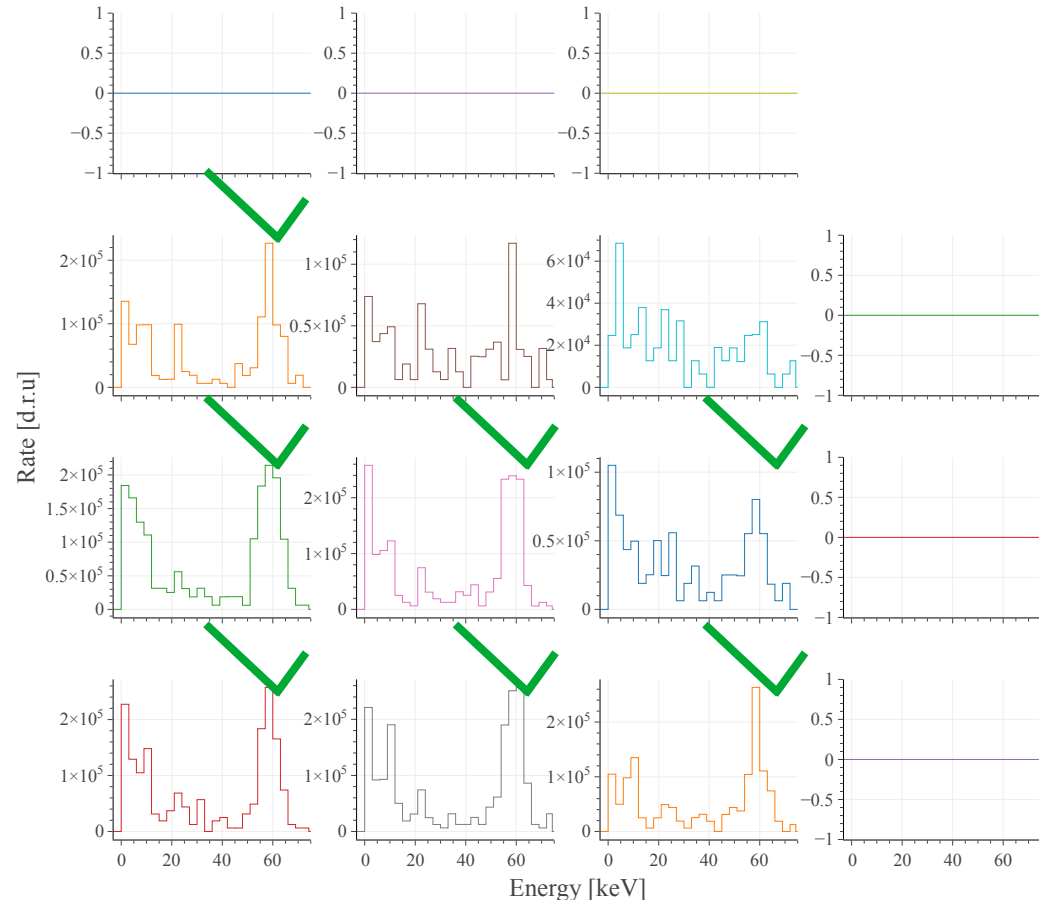


250 um of lanthanum foils

5 hours of calibration
5% of resolution

Calibration with Silver target - Top

Top Wafer



250 um of silver foils

5 hours of calibration
5% of resolution

Questions and next steps

- Should we apply spectrum unfolding on gammas spectrum?
- Simulate the other sources of background:
 - ♦ Muons
 - ♦ Neutrons
 - ♦ Internals ?

