

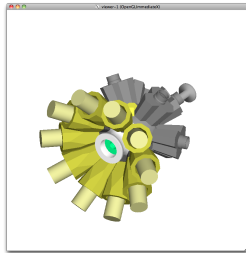
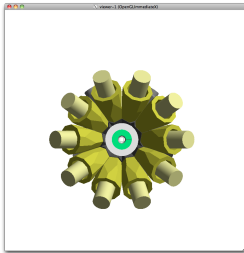
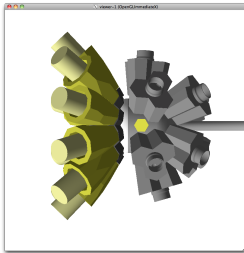
# Geant4 Simulations of the MINORCA setup

Joa Ljungvall

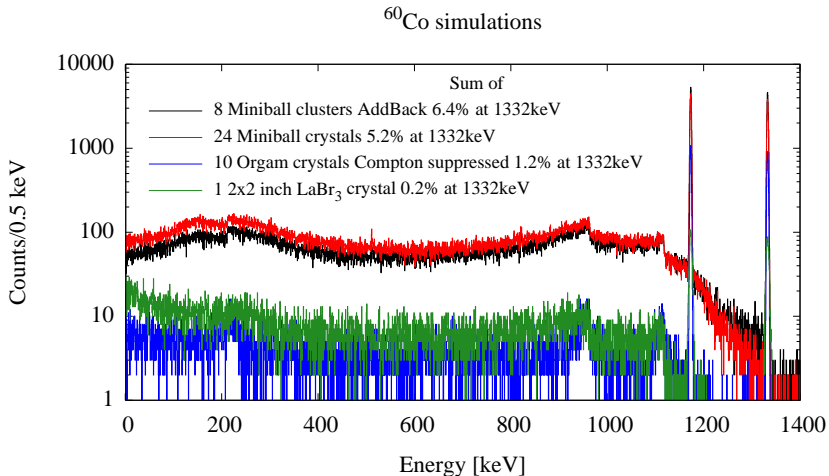
October 23, 2013

# Simulated setup

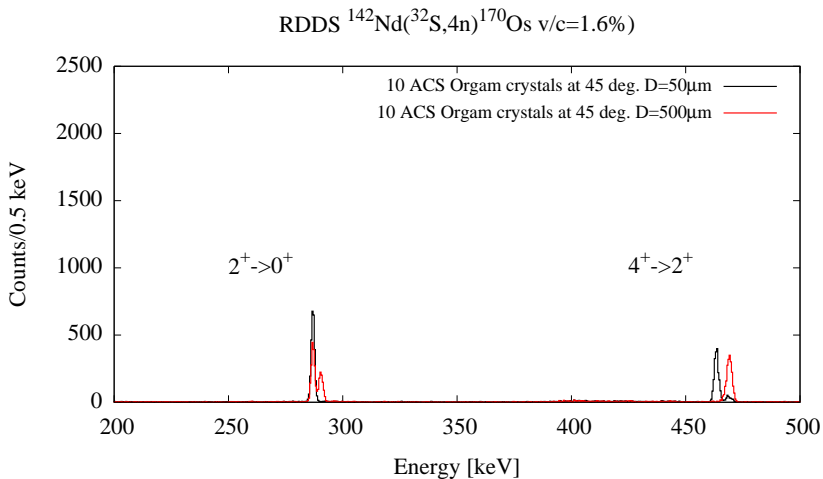
- 10 Phase I Anticompton suppressed HPGe
- 8 Miniball Cluster detectors
- 1 2x2" LaBr<sub>3</sub> detector



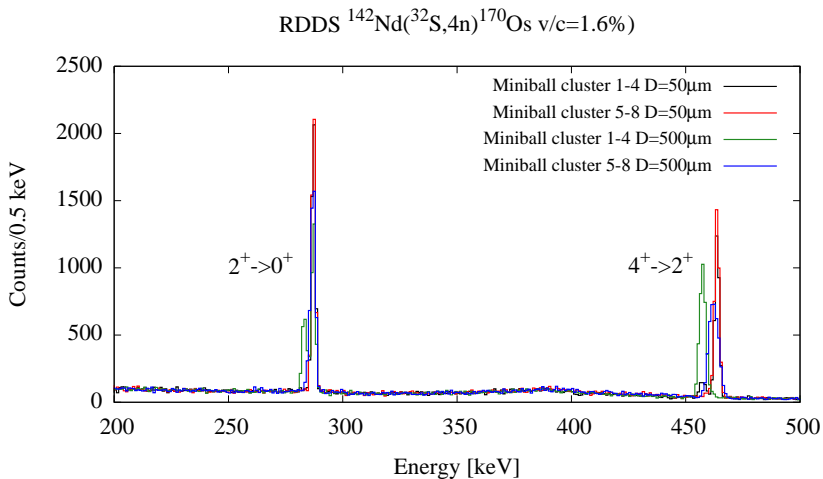
# $^{60}\text{Co}$ “benchmark”



# RDDS (“plunger”) measurement

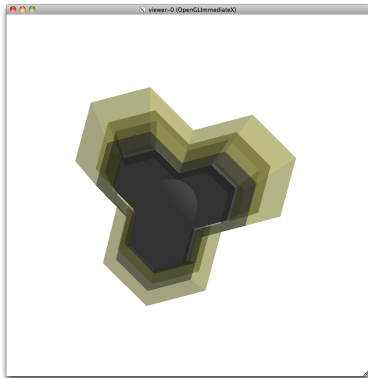
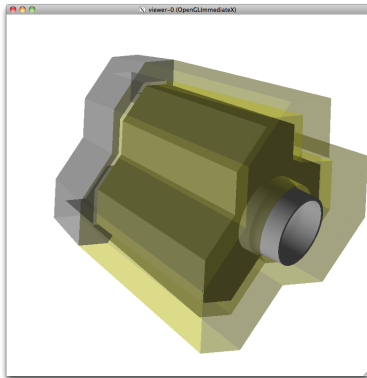


# RDDS (“plunger”) measurement

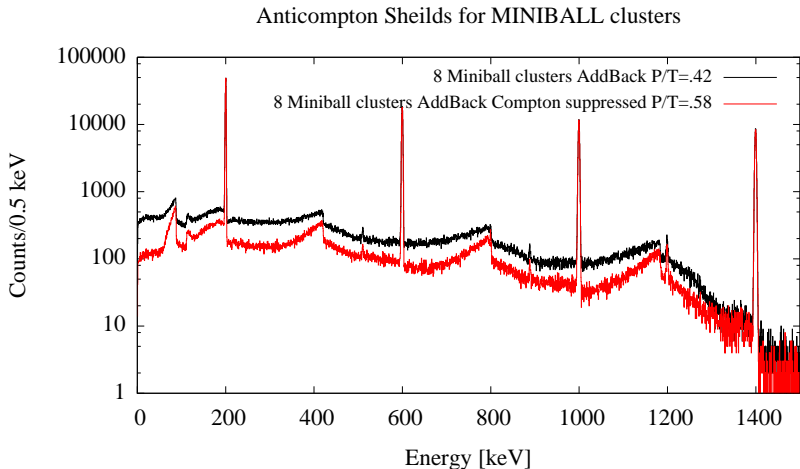


# Anti-Compton shields for MINIBALL

- Full shields with back plugs
- 20 mm BGO
- 35 mm Heavy met. Collimators



# Anti-Compton shields for MINIBALL



# Summary

- Orgam+Miniball 8% efficiency at 1332 keV
- Large number of angels with good efficiency
- Any “Tandem” physics possible
- Simulation tools available