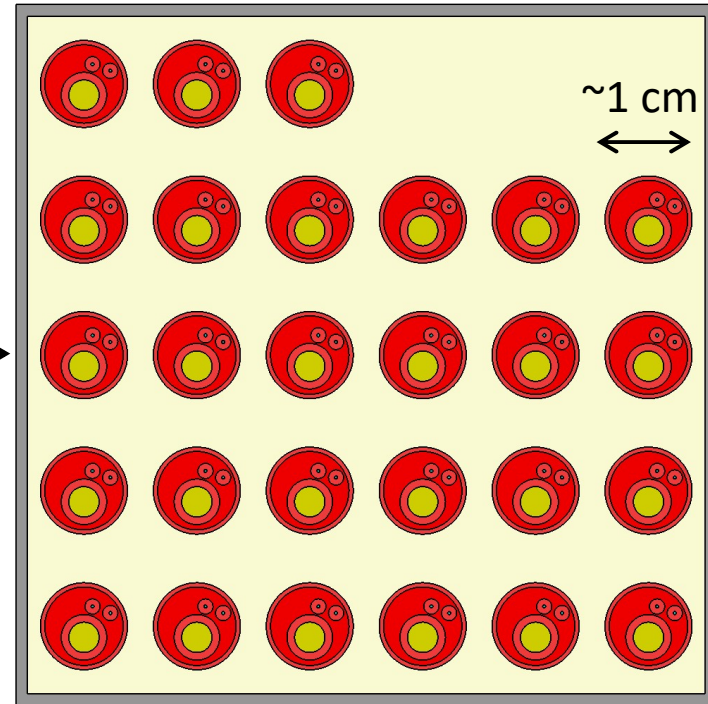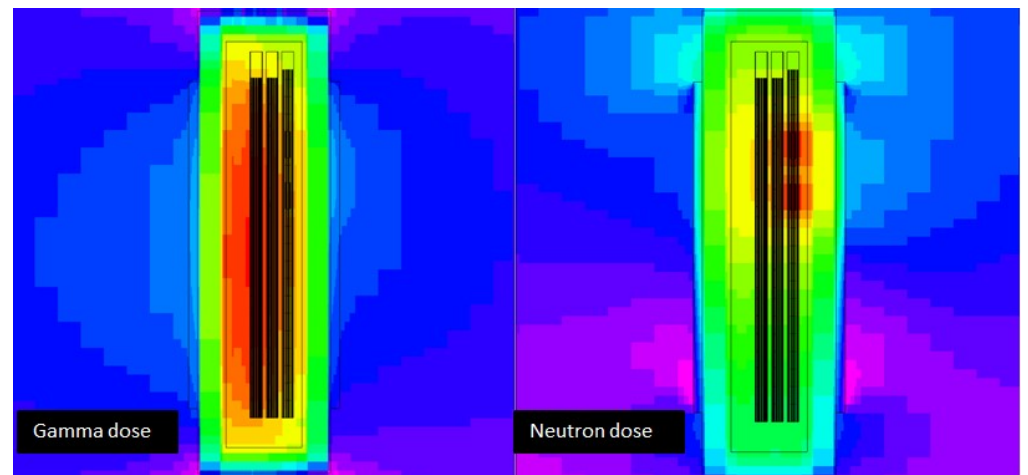*Measurement station*

Top view of the measured components

~1 cm

Shipping cask side view

Calculation of dose rates outside shipping casks
1.) Simulation of a measurement station with 40 collimators for model validation (top two figures)
2.) Estimation of gamma and neutron dose rates outside the shipping casks (right figures)
3.) Automated process using Python to create the complete calculation chain in SCALE:
Triton -> Origen -> Mavric -> SCALE utilities

Gamma dose

Neutron dose