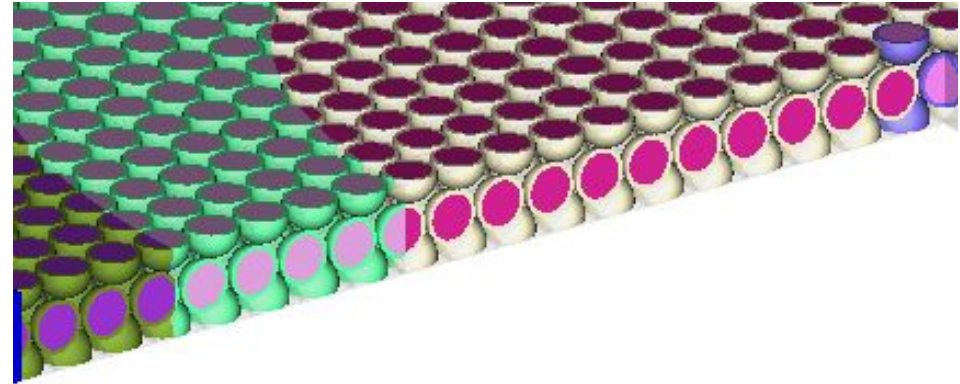
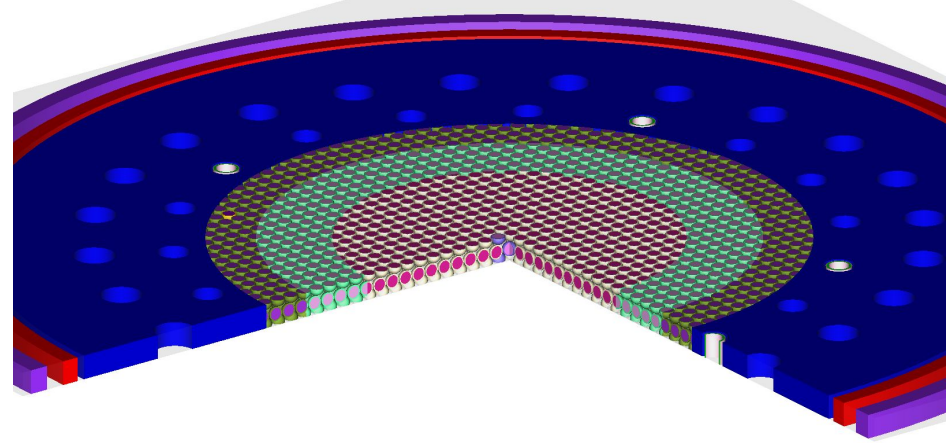


## Xe-100 Full Core and Slice Models

165 MWth pebble bed reactor, with a full core and slice model, used to determine axial and radial power profiles. Five of the nine control rods are fully inserted.

(helium is shown at a reduced opacity)

Models used to generate axial and radial power profiles, as part of a sensitivity study of fuel discharge characteristics.



Z. Richter, E. Davidson, S. Skutnik, and M. Munk, "Modeling and Simulation of Xe-100 type Pebble-Bed Gas-Cooled Reactor with SCALE," presented at the International Conference on Mathematics and Computational Methods Applied to Nuclear Science and Engineering, Aug. 2023.