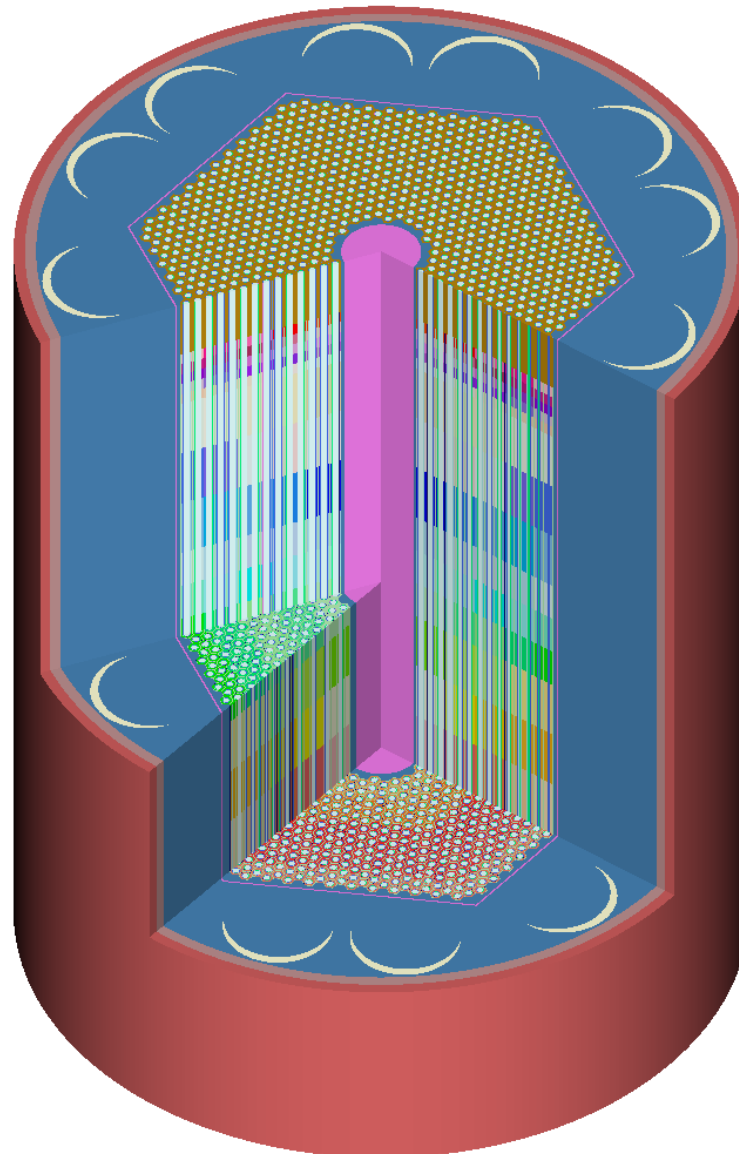


# Heat Pipe Reactor Based on INL Design A

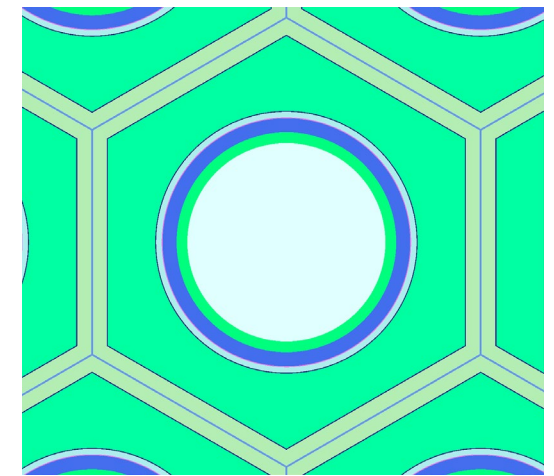
- Full core 3D model of INL-A HPR with core lifetime depletion
- 1,134 heat pipe/fuel elements
- Axial and radial reflectors
- 12 B4C control drums

**Erik Walker, Steve Skutnik, Alex Shaw (ORNL)**  
**SCALE 6.3b14/KENO-VI model, rendered with Fulcrum**

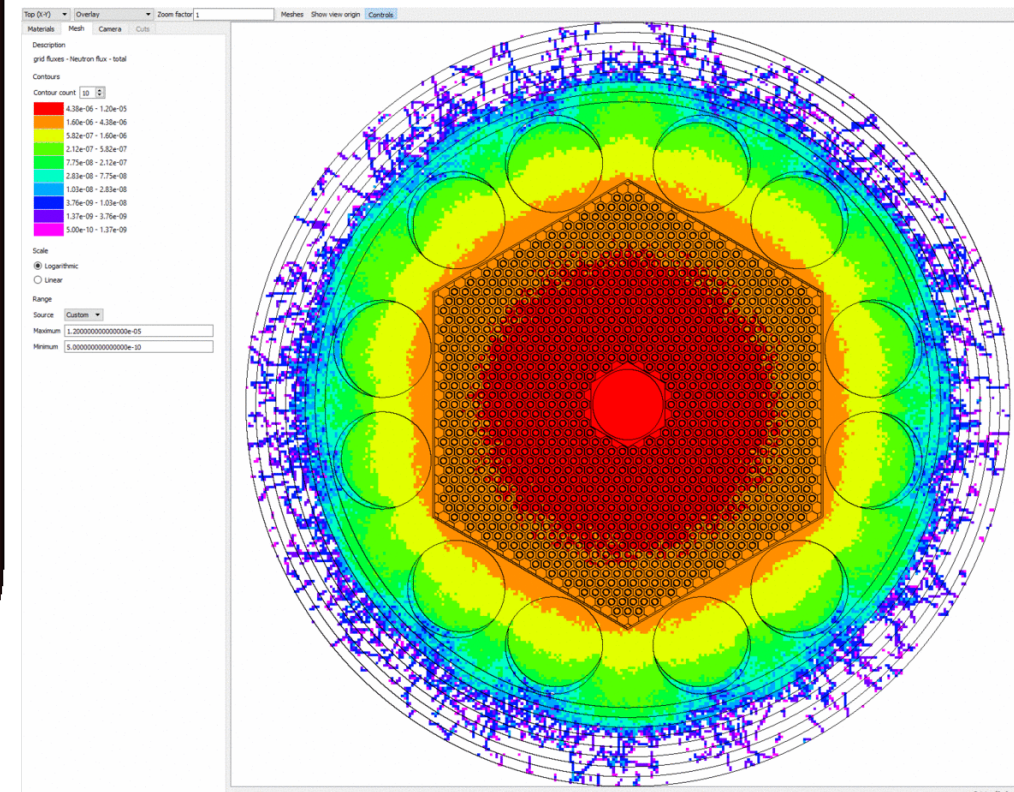
Reference: ORNL/TM-2021/2021  
This work was performed under the support of  
NRC Contract IAA 31310019N0012



Full core model



Fuel element lattice



Flux as control drums are rotated