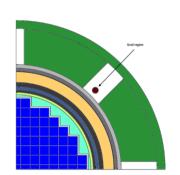
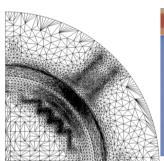
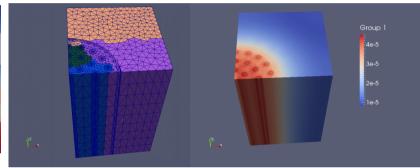
A. Buchan, C. C. Pain, S. Dargaville, D. Cacuci Queen Mary University of London, Imperial College London, Bangor University

FETCH: Neutron Kinetics Code: Time dependent, steady state and eigenvalue calculations: Key technologies: Unstructured mesh FEM, Arbitrary Angular approximations (SN,PN WAVELETS, POD), Self-adaptive resolution in space & angle, Parallel solvers: scales in the 10K cores Reduced Order models - space and angle, Adjoint based Sensitivity & Uncertainty methods



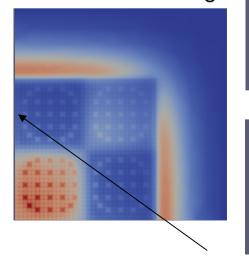




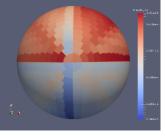


Adaptive Resolution

Roms in Angle



ROM (~20)



Sn (~500)

Parallel Solvers

