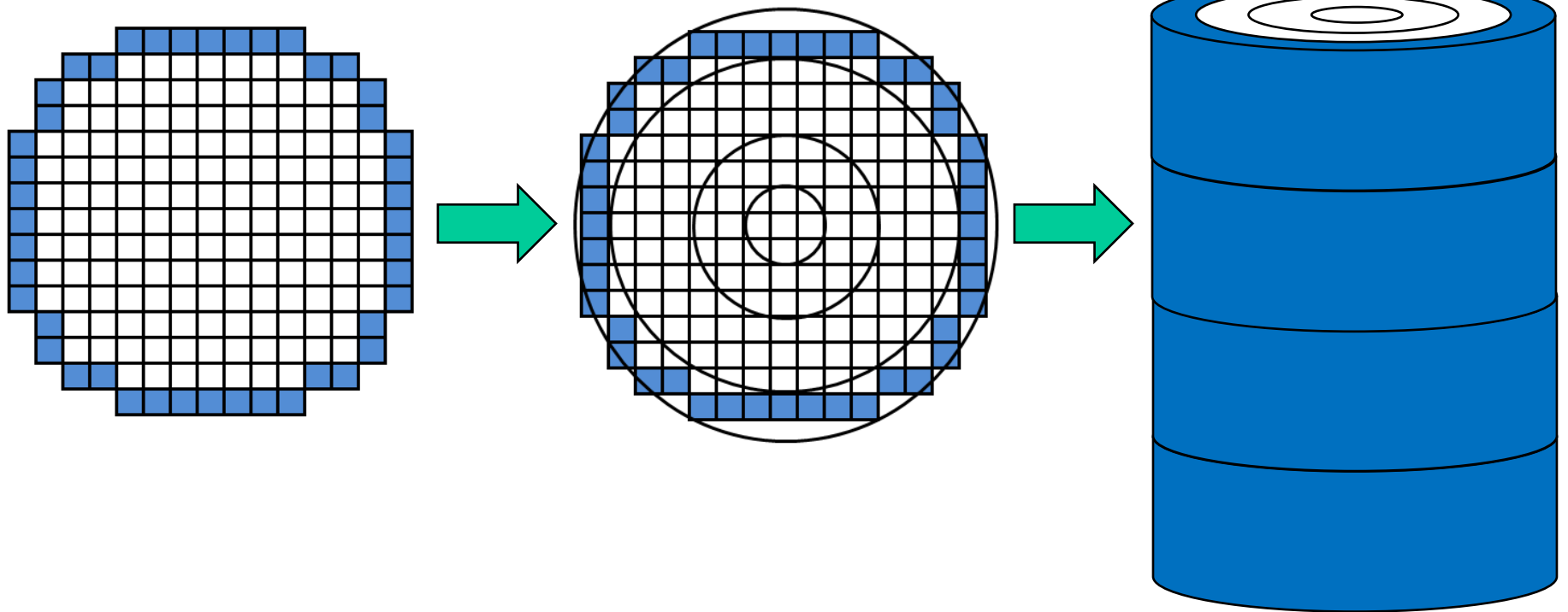
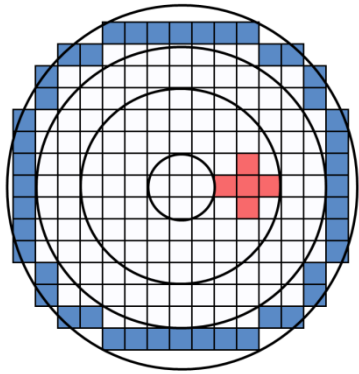


Simulation of asymmetric phenomena during core degradation with the code system AC²

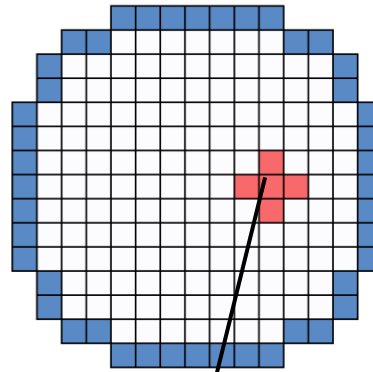
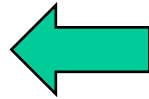
Severe accident simulation – in general



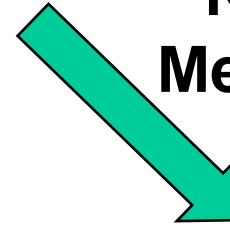
Asymmetrical characteristics



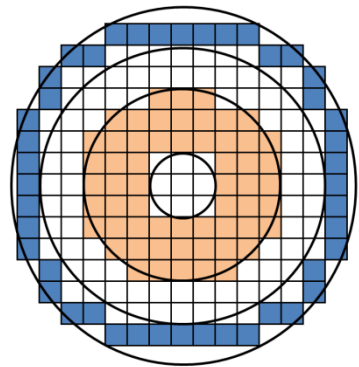
Standard Method



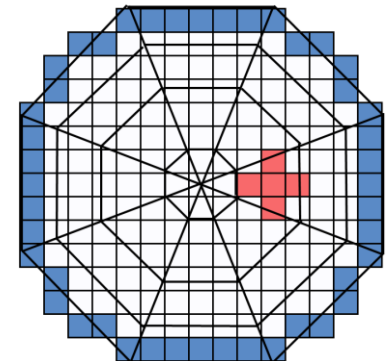
New Method



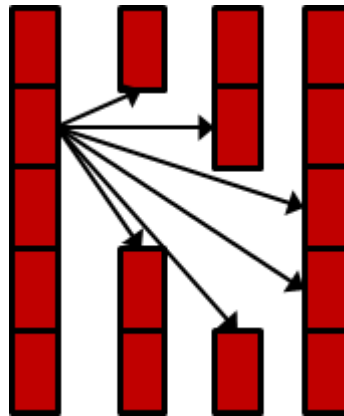
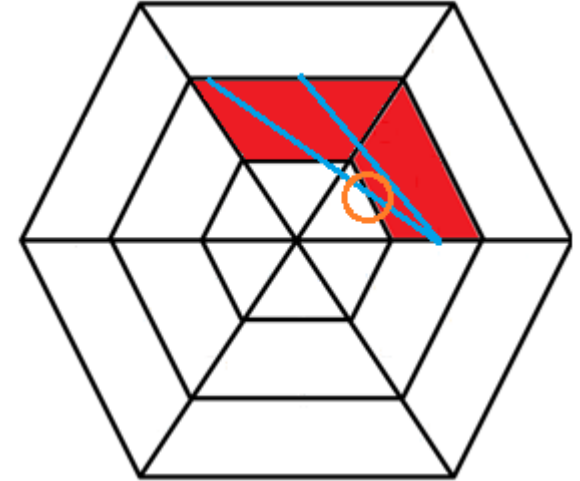
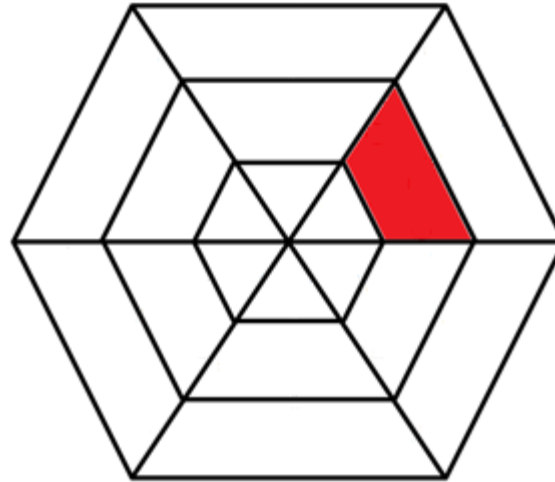
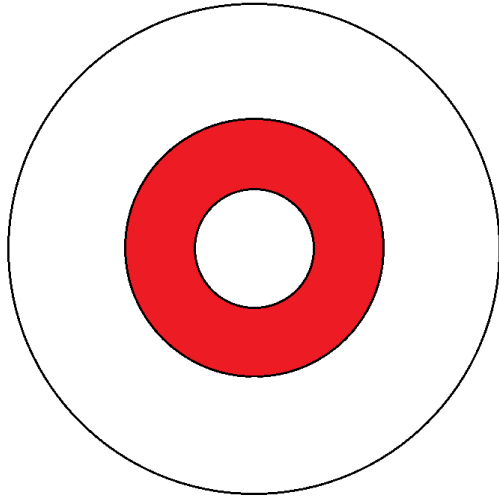
Local hot zone



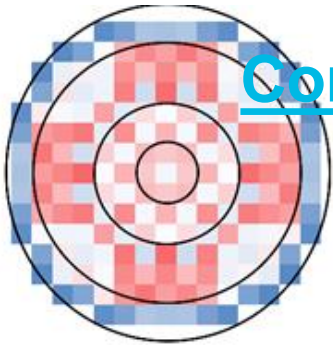
"Averaged" local effect



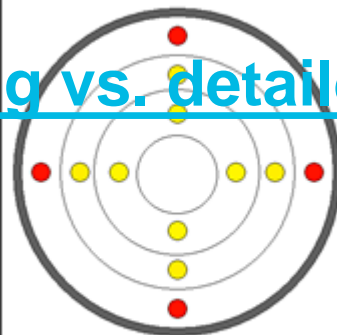
Difficulties in thermal radiation calculation



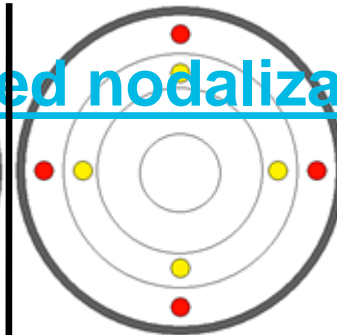
Comparison: ring vs. detailed nodalization



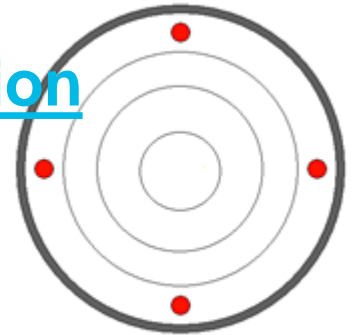
T1



T2

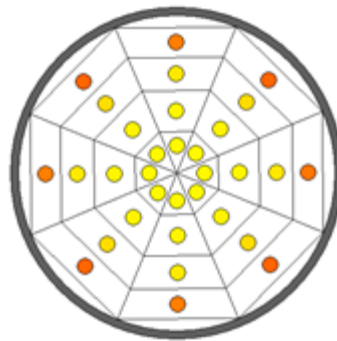
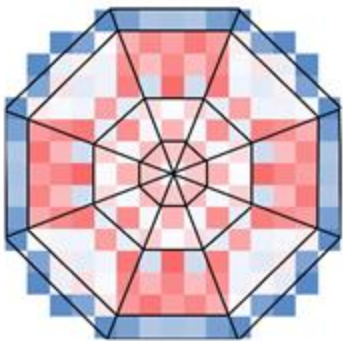


T3

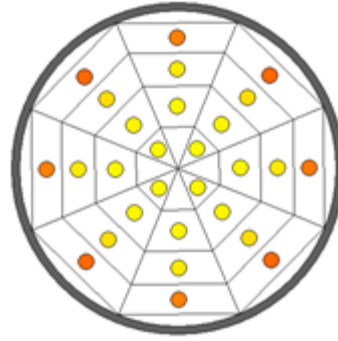


T4

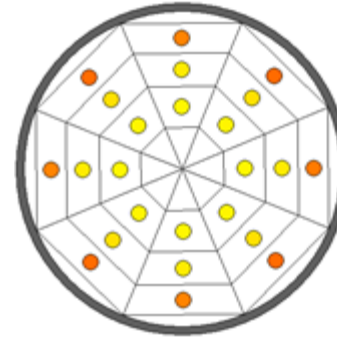
- Local effects taken into account
- Big influence
- Validation needed
- Interesting, "undiscovered topic"



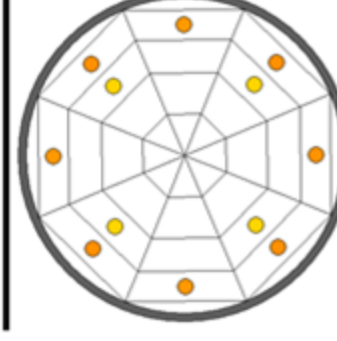
T1



T2



T3



T4