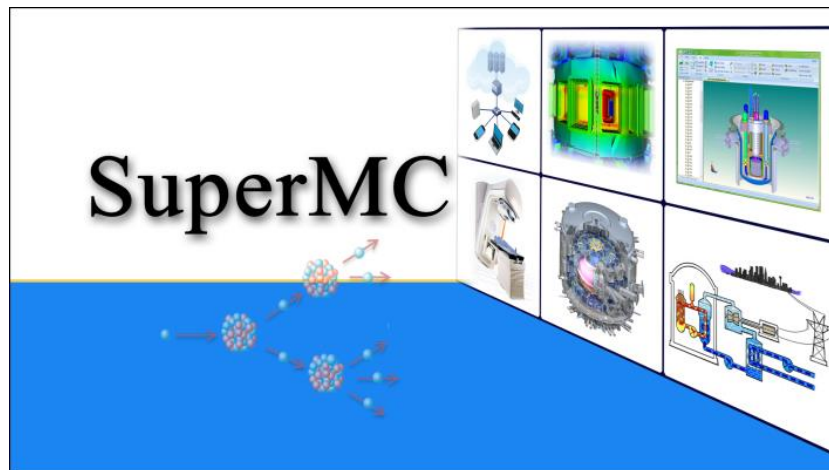


SuperMC Workshop

Super Multi-functional Calculation Program for Nuclear Design and Safety Evaluation (SuperMC) is the large-scaled integrated software system for neutronics design. Taking neutron transport calculation as the core, SuperMC supports the whole process neutronics calculation containing depletion, radiation source term/dose/biohazard, material activation and transmutation, and is also in support of the multi-physics coupling calculation of thermo-hydraulics, structural mechanics, chemistry, biology, etc. Besides, based on the cloud computing framework, it integrates accurate modeling, visualized analyses and virtual simulations and comprehensive data libraries as a whole. SuperMC can be used for the design and safety evaluation of nuclear energy systems, as well as nuclear technology application field including radiation medicine, nuclear detection and so on.

The workshop of SuperMC will contain following sessions:

1. Introduction to SuperMC
The development history, the main functions and the advanced methods of SuperMC
2. SuperMC Tutorial
This part of the workshop will give the introduction to the usage of the automatic modeling, calculation and visualization modules.
3. Advanced features of SuperMC
This part of the workshop will give detailed introduction of the advanced methods, such as the R1S shutdown dose rate calculation and
4. Discussion



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