Numerical methods in reactor physics
Session organizers

1. Florencia Cantargi, Centro Atómico Bariloche (CNEA), San Carlos de Bariloche, Argentina.
2. Eduardo Villarino, INVAP, San Carlos de Bariloche, Argentina.

Description

The improvements in the computational systems allows the development of innovative methods for reactor calculations and analysis including utilization of better theories, numerical methods and adding multi engineering information to perform the numerical analysis of the system including the neutron and gamma transport.

Papers in the following subjects can be presented: Lattice physics, core analysis, resonance calculation, homogenization, pin power reconstruction, burnup calculation, large scale/high-performance computing, full-core transport analysis, multigroup cross-section generation and cross section evaluations and libraries generation.

This sesion allows paper presentation in all these topics using Deterministics, Monte Carlo and Transient Analysis Methods. Applications of these methods in research reactors and nuclear power plants are welcomed.