

Workshop 2: New Capabilities in MCNP4C

Thursday May 11, 2000

Workshop Registration: 1:00 PM - 1:30 PM

Workshop: 1:30 PM - 5:30 PM

by Dr. John S. Hendricks and colleagues (LANL)

The focus of this workshop is on new features and capabilities of the LANL MCNP Program.

PRELIMINARY PROGRAM

- I. MCNP4C Overview of New Features
 - Unresolved Resonance Range Probability Table Treatment
 - ENDF/B-6.5 Sampling Schemes
 - Delayed Neutrons
 - Electron Physics Enhancements
 - PC Enhancements
 - Parallelization Enhancements
 - Other Improvements - cumulative tallies, etc.
- II. Geometry: Macrobodyes
 - Combinatorial-like Geometry Specification Using New
 - Macrosurfaces: boxes, cans, and hexagonal prisms
- III. Sources: Alpha Eigenvalue
- IV. Tallies: Enhanced Perturbations
 - Criticality and Perturbation Tallies without Corrections
- V. Variance Reduction: Superimposed Importance Meshes
 - Weight Windoes and the Weight Window Generator Can Utilize
 - either Cartesian or Cylindrical Superimposed Importance
 - Grids to Avoid Subdividing Geometries for Variance Reduction.

MCNP workshop Homepage: <http://www-xdiv.lanl.gov/XCI/PROJECTS/MCNP>

Questions regarding the workshop should be directed to John S. Hendricks
(mcnp@lanl.gov).