Workshop 3: PENTRAN 3-D Parallel Sn (PSU)

Friday May 12, 2000
Workshop Registration: 7:30 AM - 8:00 AM
Workshop: 8:00 AM - 12:00 Noon

by Prof. Ali Haghighat and colleagues at Penn State University (PSU)

This workshop concerns recent advances, new features and capabilities of the Penn State PENTRAN multidimentional discrete ordinates program.

PROGRAM

PENTRAN - 3D Parallel Sn Code System
INTRODUCTION
  - Boltzmann equation
  - Discrete Ordinates method
Sn MAJOR ISSUES
  - Numerics (quadratures, differencing, ...)
  - Mesh generation
  - Cross section preparation
  - Input preparation
  - Sn codes
INTRODUCTION TO PENTRAN CODE
  - Introduction and features
  - Verification and validation
  - Parallel performance on different platforms
  - A sample PENTRAN input file
PENTRAN CODE SYSTEM
  - PENMSH: 3-D mesh generator
  - PENINP: Automated input preparation
  - PENTRAN: 3-D parallel Sn code
  - PENDATA/PENPRL: Post-processing
PENTRAN COMPUTER EXERCISES
  - Demonstration
  - Hands-on exercises

Workshop Homepage: http://www.hsact.com/physor02.htm

Questions regarding the workshop should be directed to Prof. Ali. Haghighat (haghighat@psu.edu).