

KRYLOV SUBSPACE ITERATIVE METHODS AND NUCLEAR APPLICATIONS

Wednesday, April 9, 2003 - Afternoon

Chairs: Holloway & Drumm (Gardenview E)

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RESOLUTION OF THE NEUTRON DIFFUSION EQUATION WITH SLEPc, THE SCALABLE LIBRARY FOR EIGENVALUE PROBLEM COMPUTATIONS

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A MATRIX-FREE NEWTON METHOD FOR COUPLED NEUTRONICS THERMAL-HYDRAULICS REACTOR ANALYSIS

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IMPLEMENTATION OF A NEWTON-BICGSTAB SOLVER TO TREAT THE STRONG NON-LINEARITY IN THE FORMOSA-B BOILING WATER REACTOR CORE SIMULATOR CODE

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CONJUGATE GRADIENT METHOD TO SOLVE 3-D NEUTRON TRANSPORT EQUATION WITH ISOTROPIC SCATTERING