

3-D NEUTRONICS ANALYSIS OF THE ITER FIRST WALL/SHIELD MODULE 13 University of Wisconsin-Madison B. Smith, P.P.H. Wilson, M. Sawan bmsmith6@wisc.edu

A 40° sector of ITER is modeled to calculate neutron wall loading for First Wall/Shield (FWS) Module 13

Wall/Shield

the B-10 and Ni in SS316LN-IG



neutron spectrum in steel resulting in more gamma generation





- MCNP requires all space to be defined
- ITER Module 13 complement surrounds
- A new version of DAG-MC has been developed to implicitly create the