

Abstract Submitted  
for the APR99 Meeting of  
The American Physical Society

Sorting Category: O.5 (Computation/Simulation)

**Structure of the Demonstration Code for the National  
Transport Code Collaboration<sup>1</sup>**

H.E. ST. JOHN, General Atomics, J. KINSEY, ORAU, G. BATEMAN, M. ERBA, A. KRITZ, Lehigh University, J.R. CARY, K.G. LUETKEMEYER, Tech-X, R. COHEN, R. JONG, T.B. YANG, Lawrence Livermore National Laboratory, W. HOULBERG, D. GREENWOOD, Oak Ridge National Laboratory, D. MIKKELSON, Princeton Plasma Physics Laboratory, J. WILEY, The University of Texas — The key concepts in the NTCC transport code are the use of plugable tokamak physics and numerical solution modules, steerable computations, remote invocation across the internet, interactive visualization of results, and automated retrieval of data using network transfers from remote MDSPlus data servers and Ufiles. The demonstration code features a physics server that is activated remotely within a standard web browser through application of CORBA technology. A Java-based gui client was developed that permits selection and interaction with various runtime control parameters and confinement models (GLF23, IFS/PPL, Multi-Mode, and OHE) and allows interactive graphical display of the results as they are generated.

<sup>1</sup>Supported by U.S. DOE under Contracts DE-AC03-98ER54463, DE-AC02-76CH03073, W-7405-ENG-48, DE-AC05-96OR22464, DE-FG05-88ER53266, and Grant DE-FG02-92ER54141.

- Prefer Oral Session  
 Prefer Poster Session

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Date submitted: December 2, 1998

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