Simulation of DIII-D shot 132707 using Hybrid MHD-Gyrokinetic Code (HMGC)[1] ANDREAS BIERWAGE, University of California, Irvine, USA, SERGIO BRIGUGLIO, GIULIANA FOGACCIA, GREGORIO VLAD, FULVIO ZONCA, ENEA C.R. Frascati, Italy, MING-SHENG CHU, MICHAEL VAN ZEELAND, General Atomics, San Diego, USA, LIU CHEN, WILLIAM HEIDBRINK, ZHIHONG LIN, University of California, Irvine, USA, SCIDAC GSEP TEAM — DIII-D shot 132707 was dedicated to the SciDAC GSEP project focusing on energetic particle turbulence and transport, and is intended to serve as a validation case for global codes used to study Alfvén eigenmodes. We report and discuss first global nonlinear simulation results obtained with Hybrid MHD-Gyrokinetic Code (HMGC) [1] for this case.

[1] Briguglio S, Vlad G, Zonca F and Kar C, Phys. Plasmas 2, 3711 (1995)

Andreas Bierwage
University of California, Irvine

Date submitted: 22 Jul 2008   Electronic form version 1.4