

Abstract Submitted
for the DPP98 Meeting of
The American Physical Society

Sorting Category: 5.1.1.2 (experimental)

**Software Tools for Enhanced Data Visualization and
Analysis Capabilities¹**

J. SCHACHTER, Q. PENG, D.P. SCHISSEL,
C. CAMPO, General Atomics, T. TERPSTRA, Princeton Plasma
Physics Laboratory — Two software tools working together are being
used to enhance data analysis and visualization capabilities at DIII-D.
The first is “ReviewPlus,” a graphical user interface for viewing plasma
data. Written in IDL using object-oriented programming (OOP), the
tool allows users to interact with time histories, profiles, contour and
surface plots on the same window, and quickly perform mathematical
manipulations or combinations of data from different diagnostics. The
OOP techniques allow representation of powerful operations in concise
program statements, and provide an easy means of extending functional-
ity. The second software tool is “MDSplus,” developed by MIT, LANL,
and IGI-Padova. At DIII-D, MDSplus is used as a central repository
for analyzed data. Employed in ReviewPlus, MDSplus provides access
to data from diagnostics, analysis codes, and even different experiments
located around the globe. A description of these two tools will be pre-
sented along with a live demonstration of their use.

¹Supported by U.S. DOE Contracts DE-AC03-89ER51114 and DE-
AC02-76CH03073.

- Prefer Oral Session
 Prefer Poster Session

D.P. Schissel
schissel@gav.gat.com
General Atomics

Special instructions: DIII-D Poster Session II (divertor physics, disruptions, RF, & diagnostics),
immediately following Peng

Date submitted: July 21, 1998

Electronic form version 1.3