Category Number and Subject: 10.0.0 Undergraduate or High School
Research

[ ] Theory   [x] Experiment

**Development of unified plotting tools for GA transport
analysis,*** M. Buuck, *St Olaf College*, J. Candy, *General Atomics* –
A collection of python classes for the TGYRO suite of codes (NEO,
GYRO, TGYRO, TGLF) has been developed that provide both the
expert user with conceptually simple access to all code output data,
and the casual end user with simple command-line control of
plotting. The user base for these transport analysis codes continues to
grow, raising the urgency of modernizing and unifying the plotting
tools used for post-simulation analysis. Simultaneously, there is a
push toward larger-scale fusion modeling underscoring the need for a
revised, modernized approach to data management and analysis. The
TGYRO suite is currently in use at all major fusion laboratories
worldwide, and allows the user to make steady-state profile
predictions for existing devices and future reactors, and simultane-
ously to carry out fundamental research on plasma transport (both
collisional and turbulent).