Development of unified plotting tools for GA transport analysis\textsuperscript{1}

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 simultaneously to carry out fundamental research on plasma transport (both collisional and turbulent).

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