

Slight Update with Further Verification of delta-F Flow Damping Results and Future Work

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Update

- Working on convergence in physical space, velocity space, and time.
- Currently quadrature point positions change when changing polynomial degree. Hence a need to change how we write out flow damping diagnostics.
- Current idea is to use NIMROD's splining feature to allow one to write out diagnostics at a set of fixed psi locations. However slight subtleties with this are currently being considered.

Future Work

- Use a method similar to that employed in `advance_FT` in `nimrod.F90` to couple the ion Chapman-Enskog-Like Drift Kinetic Equation advance to an ion flow-velocity advance. (And perhaps to others of NIMROD's fluid advances).
- Apply to flow-damping problem.
- Eventually (a little more long term) use to model the effects of 3-d RMPs (Resonant Magnetic Perturbations).