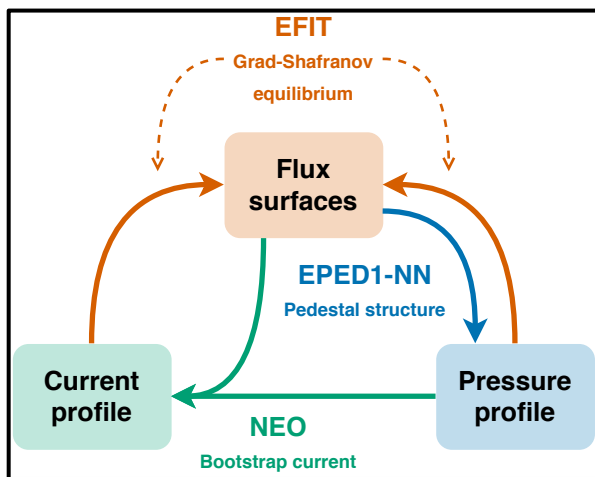


SEGWAY Integrated-Modeling Workflow Developed & Applied to Predict-First MHD Modeling of Upcoming Experiments – B.C. Lyons et al. (TH/P1-8)

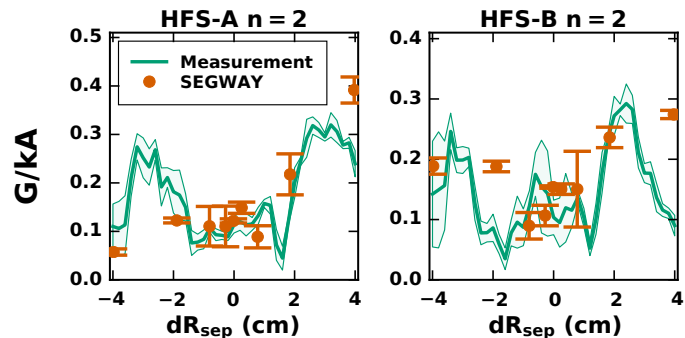
SEGWAY generates equilibria with self-consistent pedestal structures

- Vary shape, q_{95} , β , etc.
- Equilibria analyzed with M3D-C1



Predict-first studies

Qualitatively predicted trends in magnetic signals on DIII-D as plasma varied between single- and double-null



Predict plasma response to decrease with q_{95} in DIII-D high- β_p experiments

- May explain difficulty in achieving ELM suppression
- To be explored on future DIII-D and EAST experiments

