



Supported by



U.S. DEPARTMENT OF
ENERGY

Office of
Science

EP-TSG Proposals for FY17 Milestones

M. Podestà, D. Liu, N. Gorelenkov, N. Crocker

Optimization of the EP distribution function for improved plasma performance

- Target effects of TAE/RSAE modes
 - May include sawteeth
- Focus on ramp-up, early flat-top to optimize NB mix
 - Look at current drive, resulting q-profile evolution vs NB mix
 - Don't have MSE data... rely on modeling (perhaps some MHD spectroscopy?)
- Synergy with Scenario development (ASC-TSG)
- *Have data from FY-16 Run*

CAE/GAE (de)stabilization with NSTX-U NBI

- Focus on high-f AEs physics (GAE/CAE/ICE)
- Include results on GAE stabilization by 2nd NB line
- Modeling based on HYM code
- Possibly include comparison with DIII-D, if data become available
 - Possible DIII-D National Campaign experiment (?)
 - but keep in mind: this is a NSTX-U milestone

- *Have data from FY-16 Run*