Collisionality scaling of transport at high β in NSTX-U relevant DIII-D plasmas N. A. Crocker, W. Guttenfelder, T. L. Rhodes

- Understanding collisionality scaling of transport at high β is *high* priority in NSTX-U and DIII-D
 - DIII-D developing high β operating scenarios
 - Connects to relevant NSTX-U parameter ranges
- Core intermediate-k \tilde{n} , \tilde{B} : UCLA developing W-band (81-87GHz) CPS & DBS for NSTX-U => may bring to DIII-D for National Campaign
 - Extends existing DBS & CPS on DIII-D to higher densities
 - Include BES low-k ñ, PCI low–high k ñ, CECE low-k \tilde{T} , CER, etc.
- Possibility for collaboration (and model shots): MP 2014-11-09, Z. Yan "Collisionality Scaling of Transport in Advanced Inductive Plasmas"
 - B_T = 1.3 T, $\beta_N \sim 2.5$

