

# Outline Invited APS: “Modification of impurity transport and divertor sources with lithium wall conditioning in NSTX”

- Impurity sources (*part of this (sputtering analysis) will be shown today*)
  - C sources w/-vs-w/o Li conditioning
  - Difference between C and Li sources
- Parallel SOL transport (*work in progress*)
  - Difference between parallel and perpendicular SOL transport: C vs Li
  - Now working on UEDGE solution to investigate differences
- Core transport (*This section to be presented at IAEA*)
  - Differences in neoclassical expectations for C w-vs-w/o Li cond.
  - Comparison with experimental levels (NEO+NCLASS(maybe GTC-NEO) vs MIST)
  - Role of ELMs (natural and triggered)
  - Linear analysis from GYRO (quasi-linear fluxes e.g. inward/outward) - Walter
  - Differences in neoclassical expectations for C vs Li and comparison with experimental levels