#### Yet More Analysis of XP1043

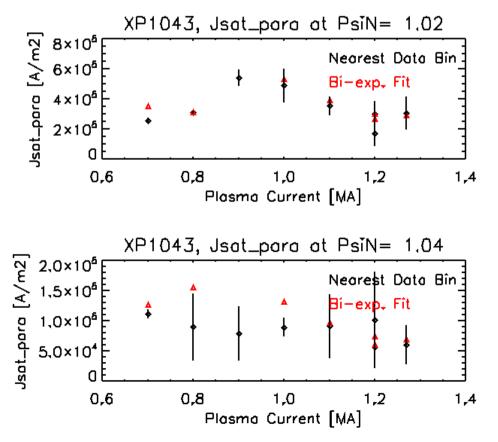
MA Jaworski 2/20/12

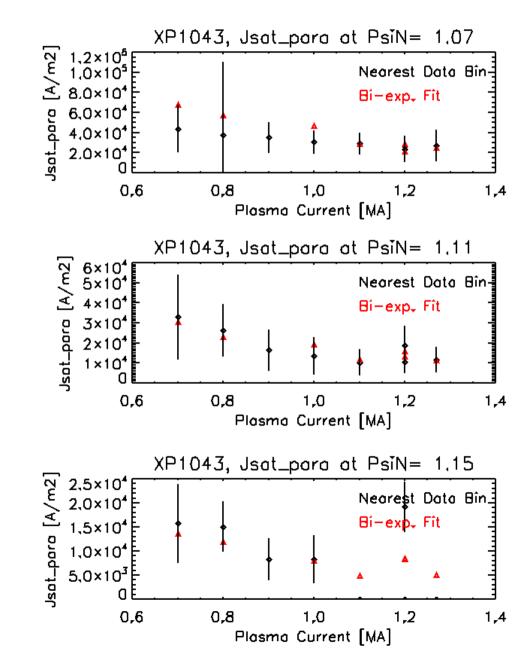
# Analysis Methodology

- J. Canik analysis indicates PsiN of the pump entrance for the candidate shapes clusters at certain values
  - 1.02, 1.04, 1.07, 1.11 and 1.15
- From data set shown at meeting 4, the value of jsat\_parallel and the single probe temperatures are extracted two ways
  - 1: Nearest available binned data point taken from data, std. dev. shown as error bar
  - 2: bi-exponential fit value at the requested value
- More notes to follow on Te in the far-SOL

### Jsat behavior at selected PsiN

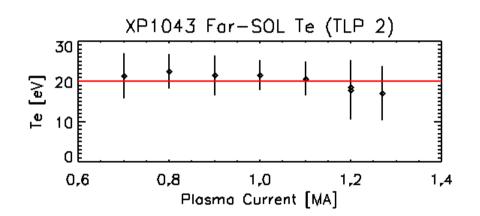
- Near-SOL behavior not monotonic with Ip
- Far-SOL exhibits downward trend





## Far-SOL Te Behavior

- Triple-Langmuir probe (probe 2) at 65cm used for Te
- Flat-top period where probe is >= second separatrix
  PsiN used to produce mean Te
- Standard Dev. shown as error bar
- Statistically, there does not seem to be much trend in the far-SOL Te



## Discussion

- The decrease in far-SOL flux with Ip seems consistent with earlier analysis of decay lengths
- As near-SOL contracts (and near-SOL contains 90%) of cumulative fraction, less should impinge PFCs in the far-SOL

