

Torus Spectral Model

- Cubic centimeter model—assumes a uniform torus along line of sight (LOS)
- Given UVIS spectral resolution, model can not separate N_e from length of LOS through torus
- Electron distribution function can be Maxwellian or Kappa distribution
- Model parameters are $M_{S\ II}$, $M_{S\ III}$, $M_{S\ IV}$, $M_{S\ V}$, $M_{O\ II}$, $M_{O\ III}$, T_e , and κ where $M_{ion} = N_{ion}/N_e$
- Model fits data well except for region around 700Å, due to calibration uncertainty
- Uncertainty in EUV calibration affects T_e , but not plasma composition