

Torus Spectral Model

- “Cubic centimeter” model developed to fit observed torus spectra
- Model calculates the spectrum emitted by 1 cm³ of plasma, then integrates this along the line of sight
- Emission parameters obtained from the CHIANTI spectral emissions database
- 6 ion species included: S II, S III, S IV, S V, O II and O III
- Electron distribution function can be either a Maxwellian or Kappa distribution function
- Model generally fits data well
- Uncertainties in the EUV calibration below 700Å and atomic physics data affects T_e , but **not** plasma composition