



Juno sees the first Energetic Neutral Atoms (ENAs) from Io's atmosphere



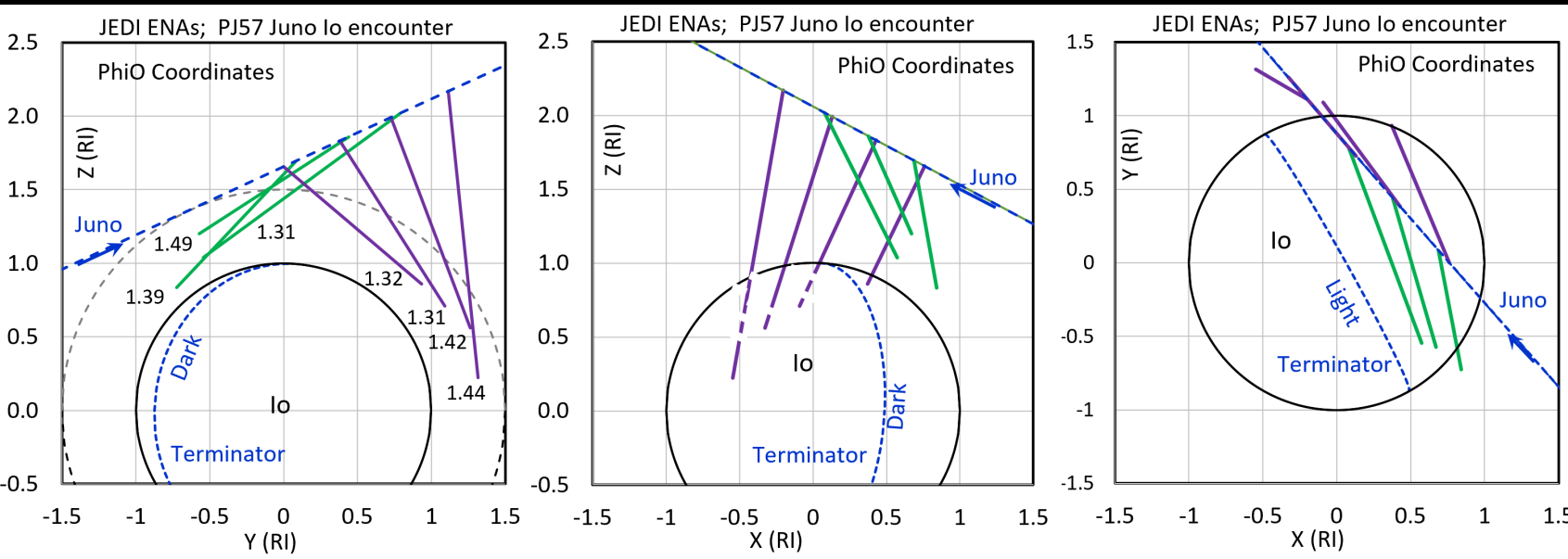
Directionality of JEDI-observed, >150 keV O+S ENA emissions from Io's nightside upper atmosphere.

Integrating Dols et al. "standard atmospheric" along JEDI lines-of-sight yield ENA / Ion ratios of 11% to 13%.

Observed ENA / Ion ratios are estimated to be 4% to 7%

Results: Nightside upper atmosphere may be a factor of 2 weaker than local-time-symmetric model suggests

Mauk et al., GRL, Submitted



Dols et al., 2012; 2024
"Standard Atmosphere"

Juno JEDI ENA spectra versus
interacting ion spectra

