

Computer models



for a
cool star

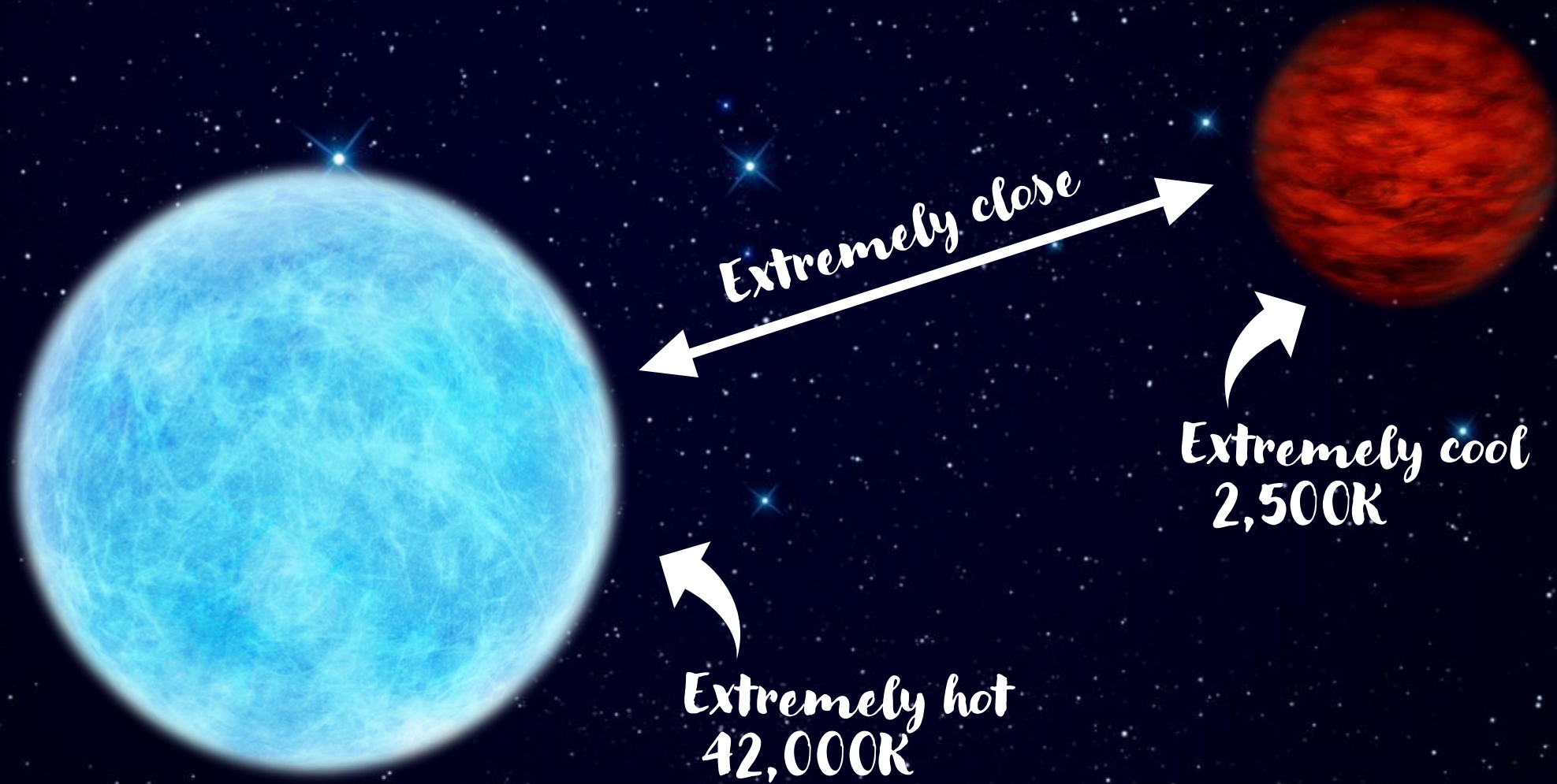


in the vicinity of a
hot subdwarf

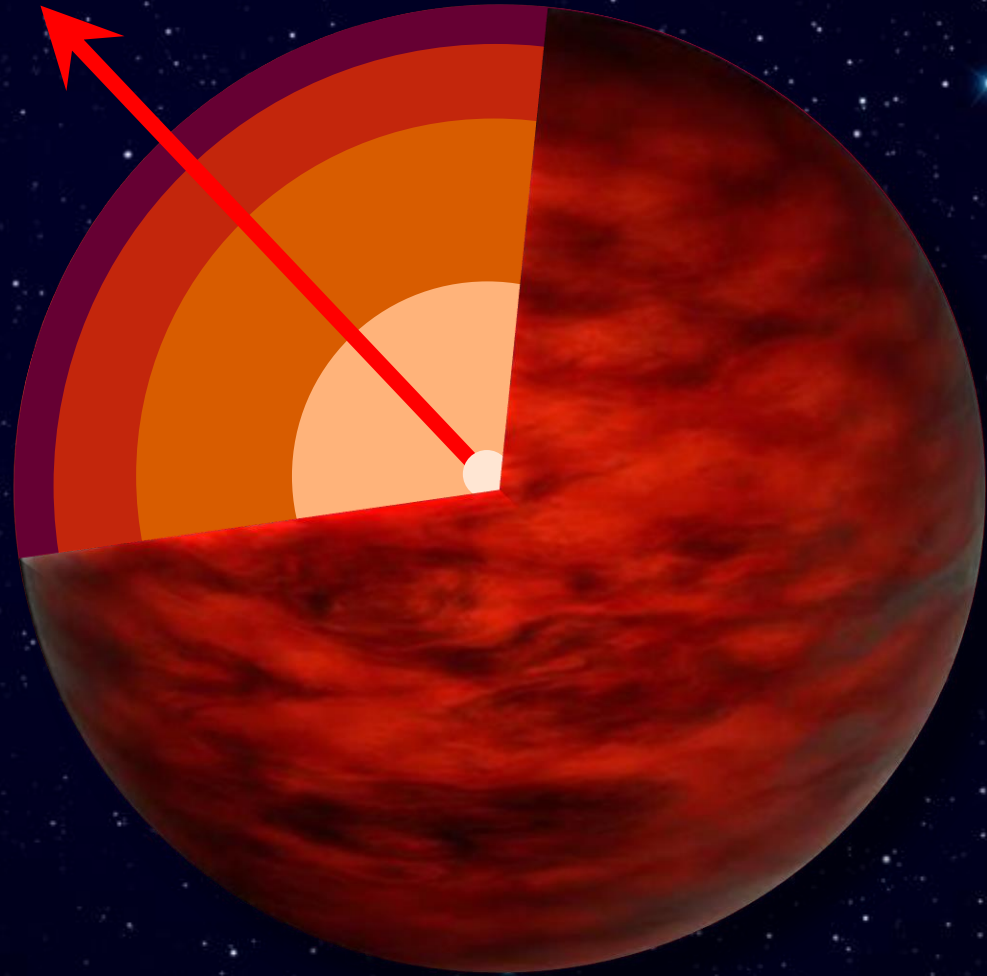


Fiona Prodöhl, M.Sc.
Hamburg Observatory

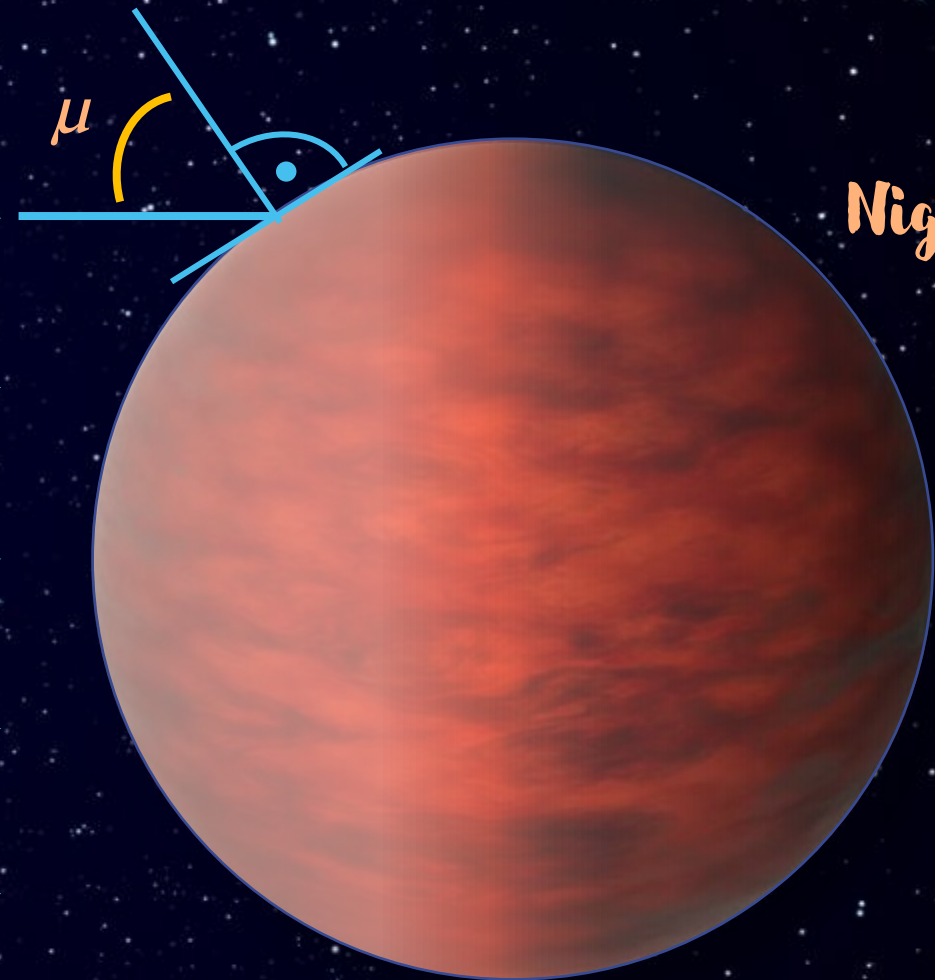
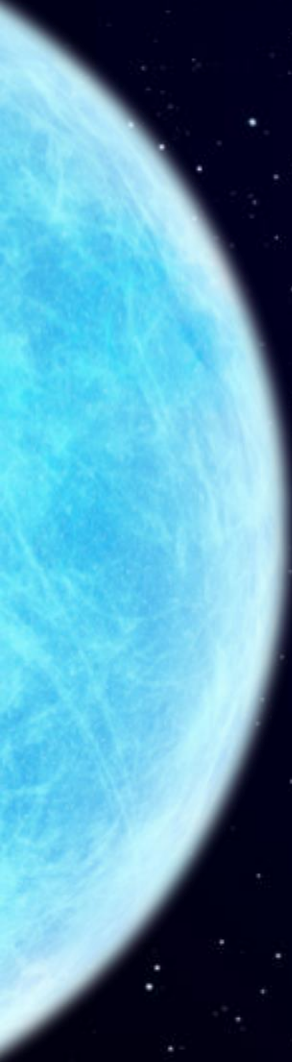
What is so interesting about AADor?



How can a star be 1D?



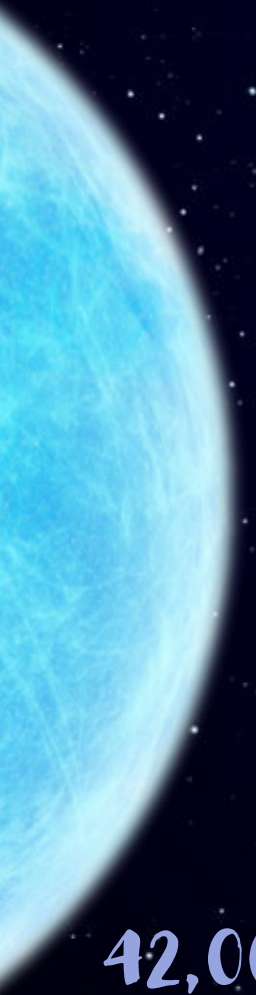
Irradiation!



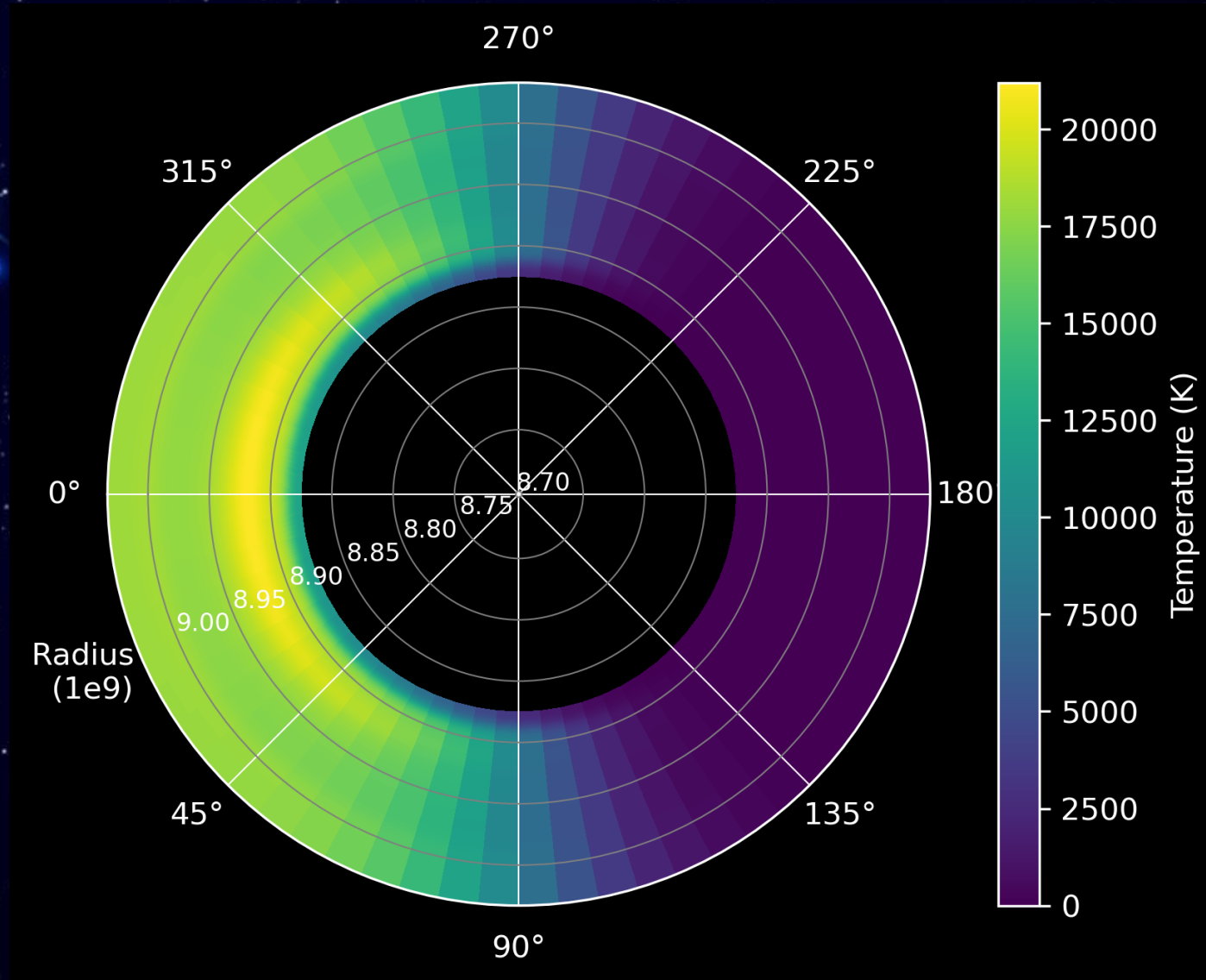
Night side

μ

1.5D Hydrodynamic Structure

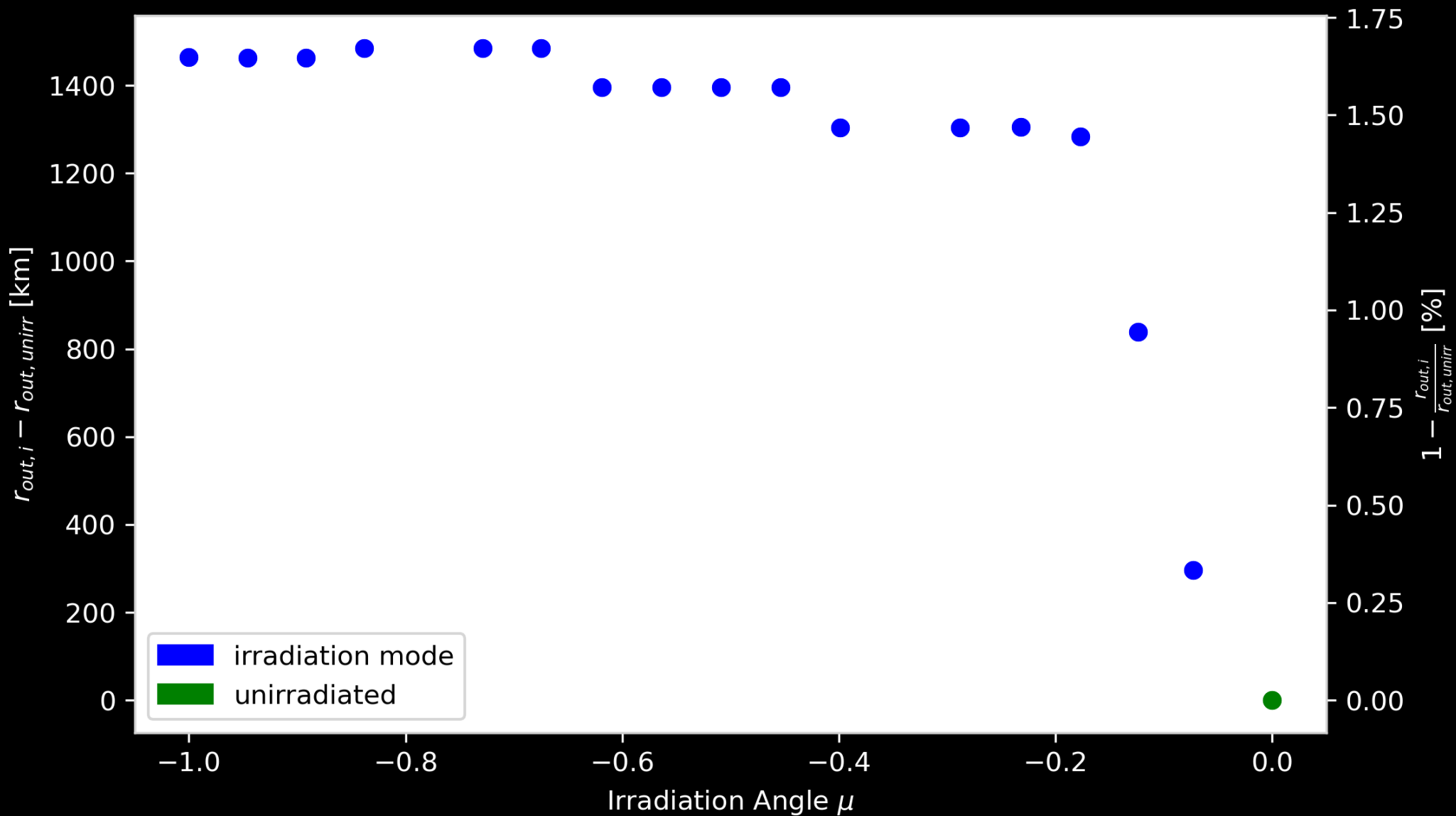


42,000K

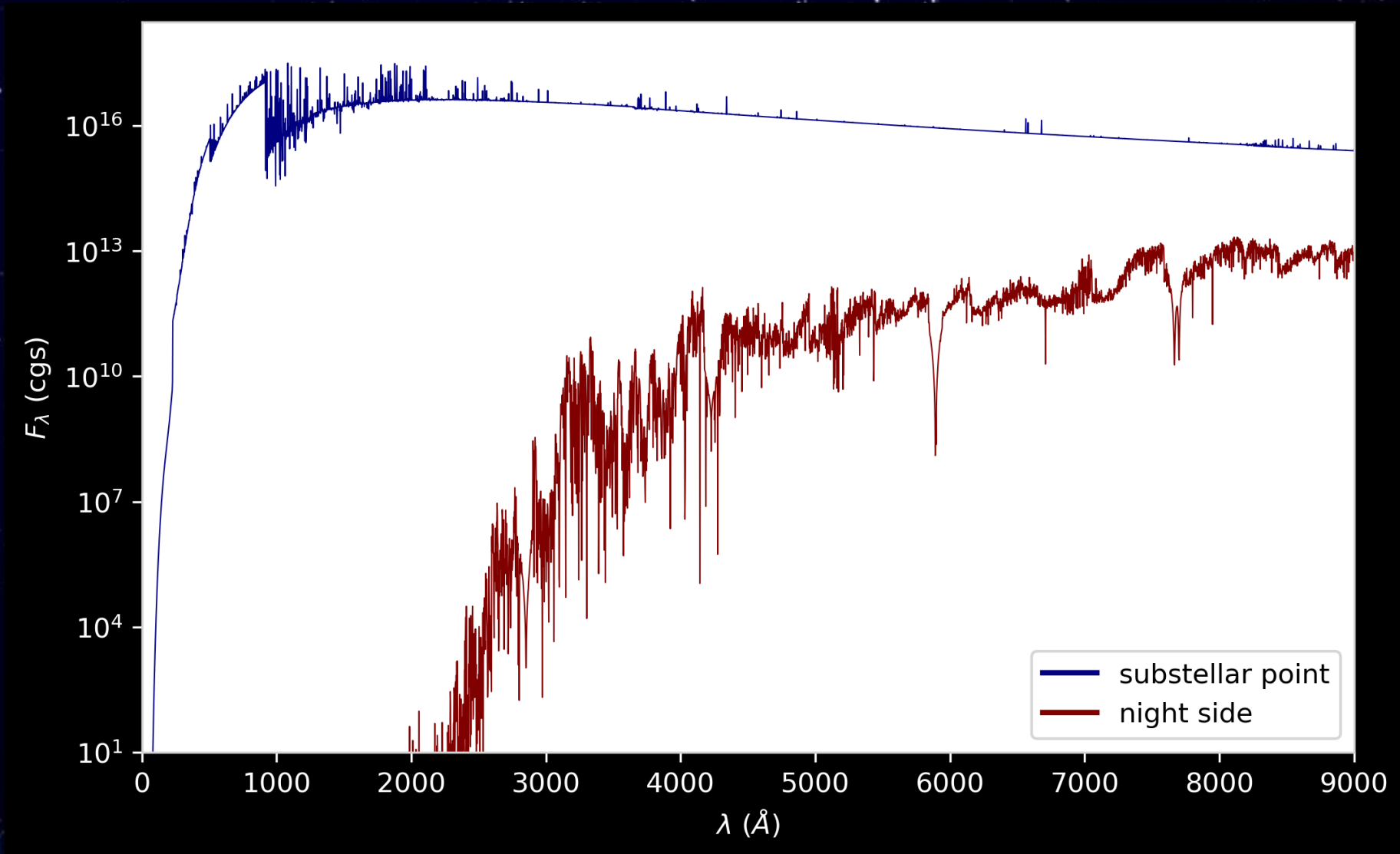


Night side

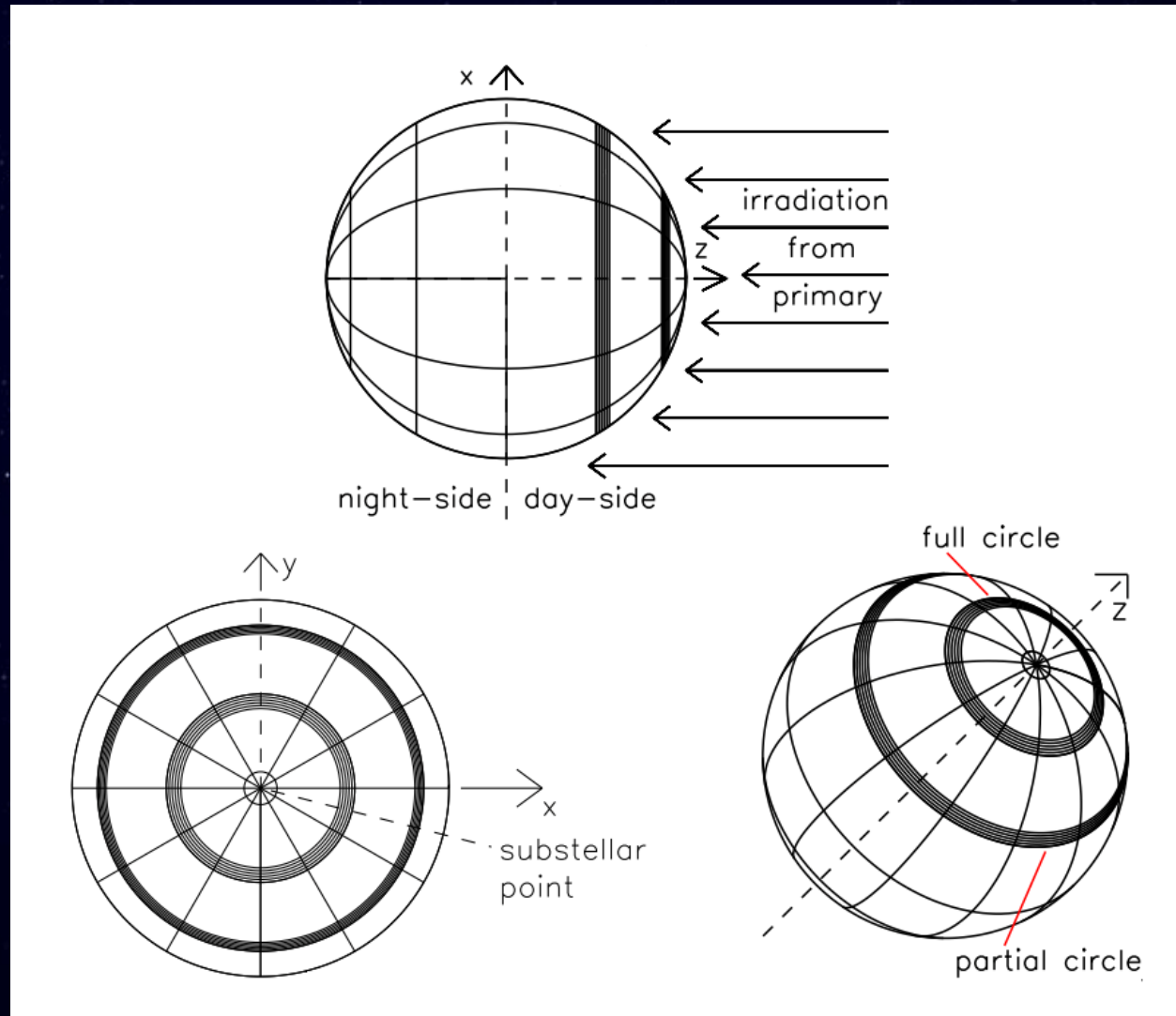
Atmosphere Expansion



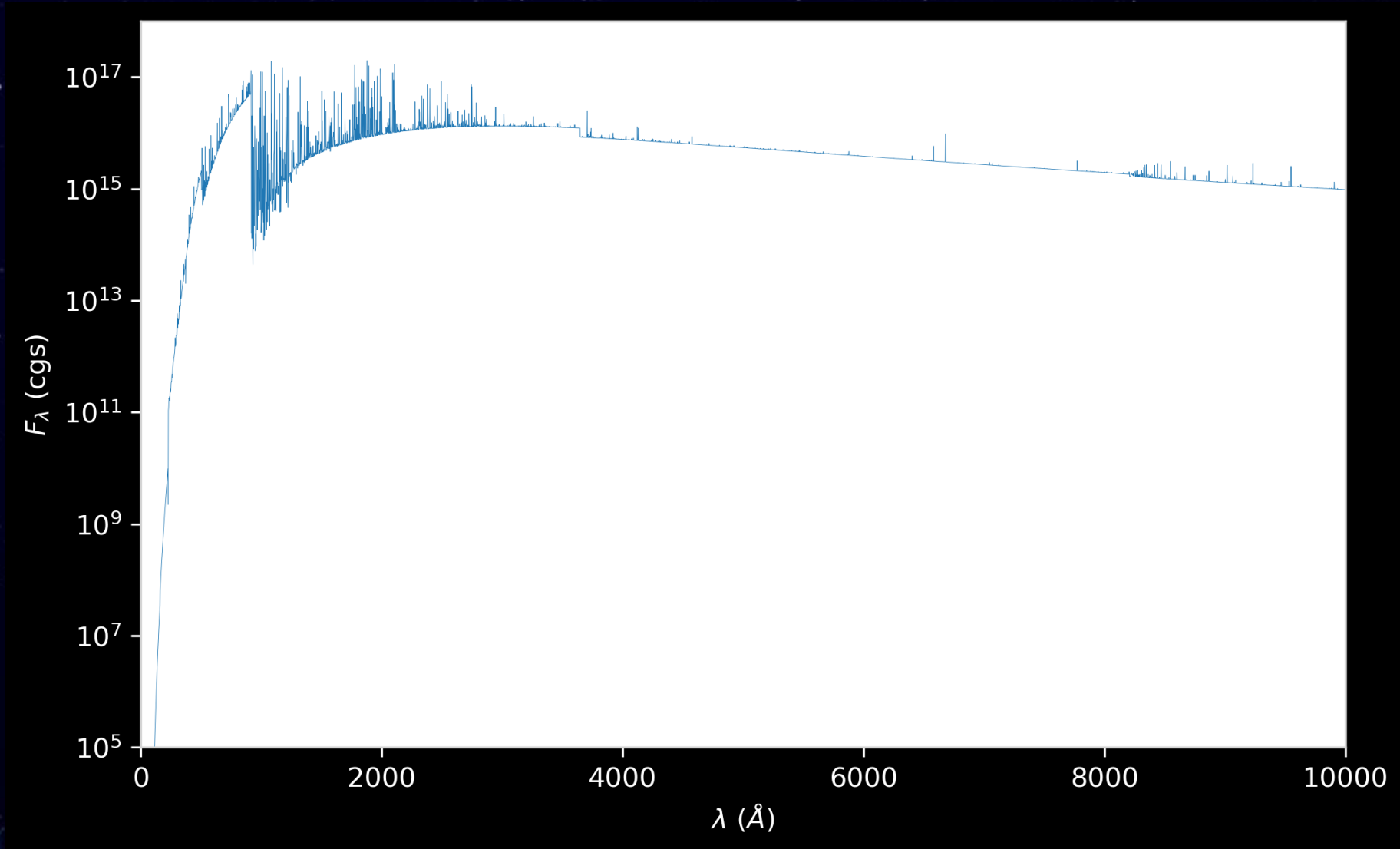
1D Spectra



1.5D Spectrum



Early 1.5D Spectrum



Early 3D Results





Thank you!

Questions?