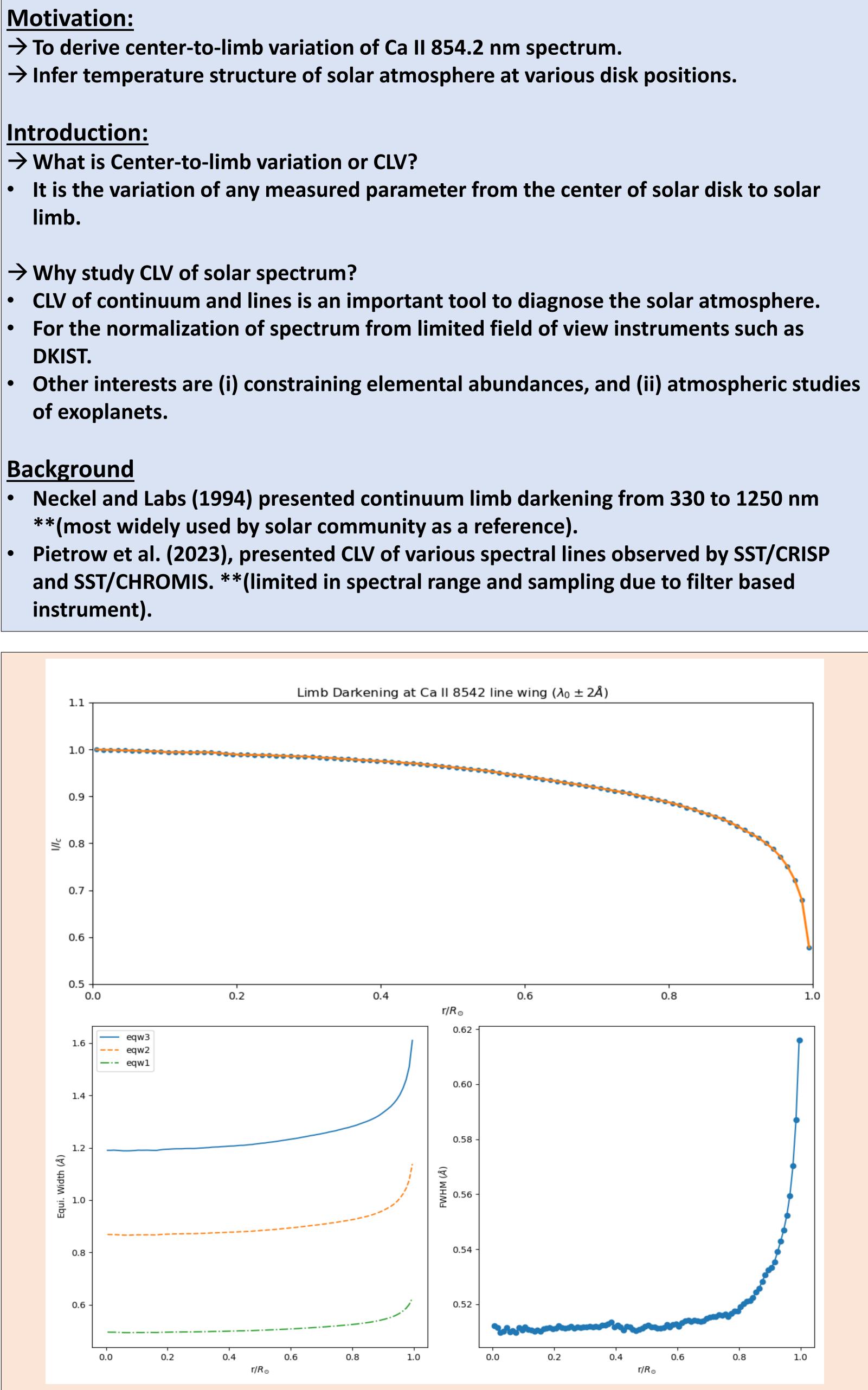


limb.

- DKIST.
- of exoplanets.

- **(most widely used by solar community as a reference).
- instrument).

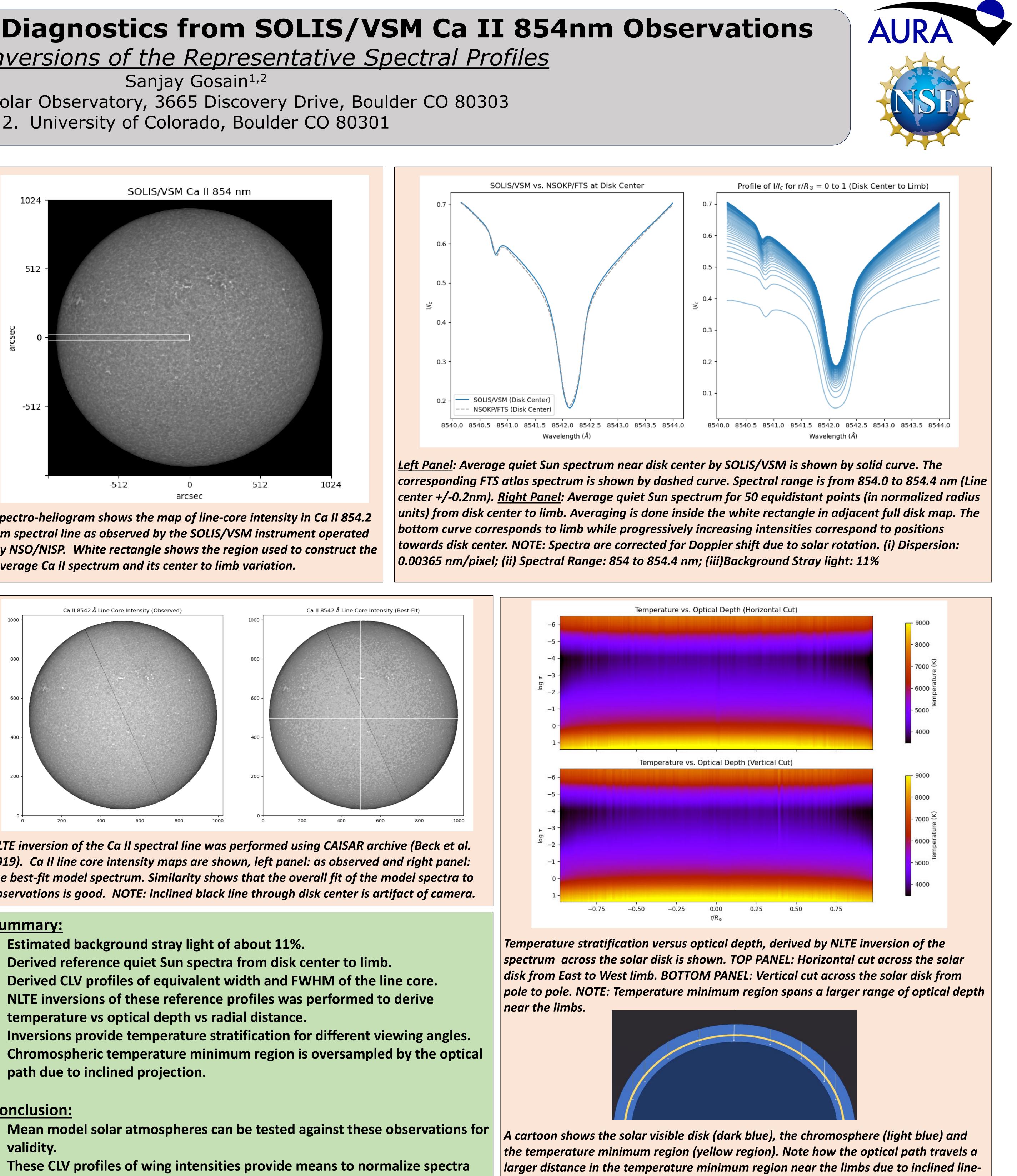


<u>Top panel</u>: Limb darkening as seen in the wings of the Ca II spectra in SOLIS/VSM observations. The wings are sampled 0.2 nm away from the line center. Near the limb the darkening profile is affected by the seeing, which is not accounted for. <u>Bottom-left panel</u>: Equivalent width computed for three different bandpasses centered on the line center, 'eqw1': 0.066 nm, 'eqw2': 0.15 nm and 'eqw3': 0.2 nm, and their CLV profile. <u>Bottom-right panel</u>: FWHM of the line core computed for a bandpass of 0.15 nm centered on the line center and its CLV profile.

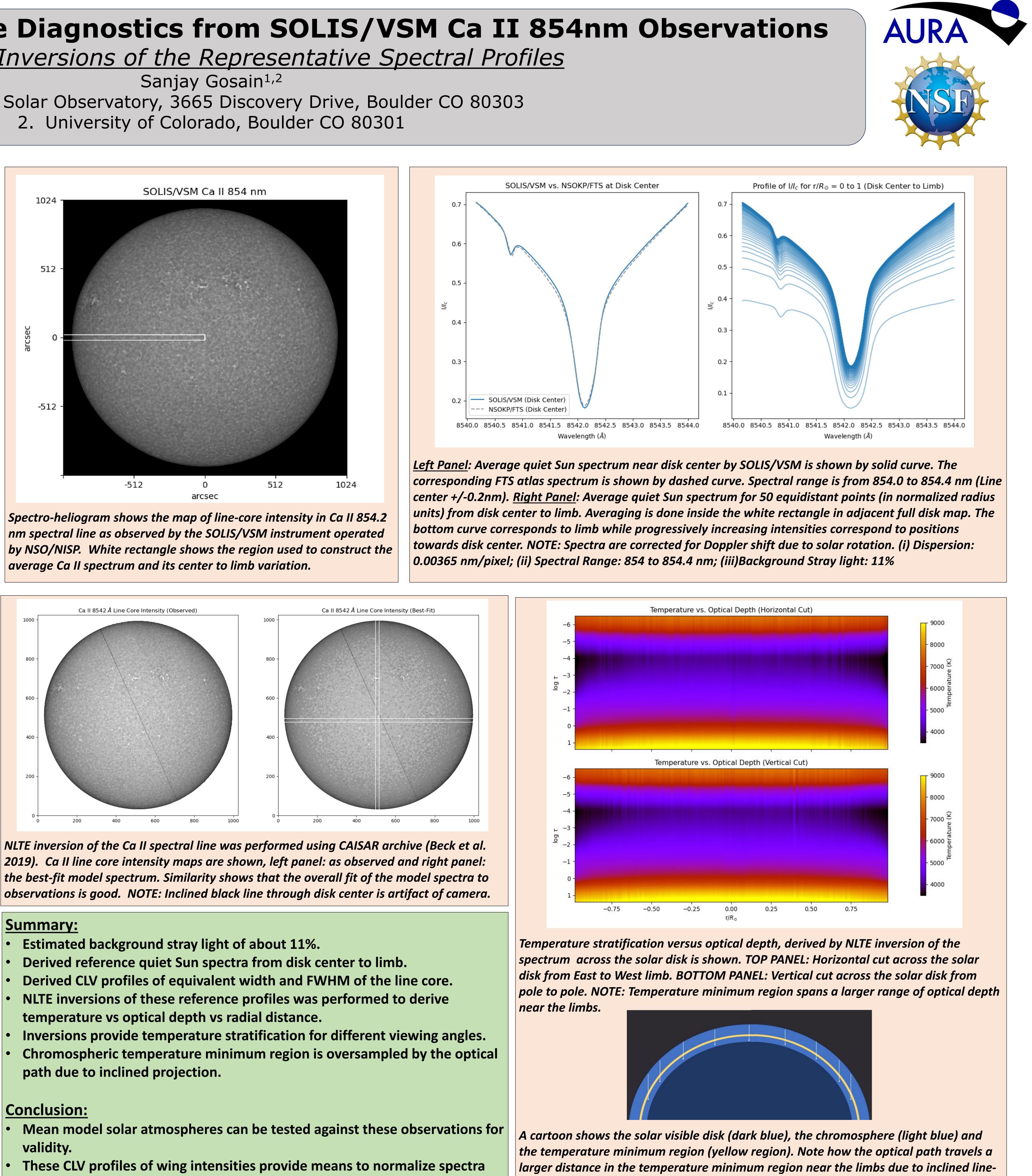
SH51G-2691

Chromospheric Temperature Diagnostics from SOLIS/VSM Ca II 854nm Observations Using NLTE Inversions of the Representative Spectral Profiles

1. National Solar Observatory, 3665 Discovery Drive, Boulder CO 80303 2. University of Colorado, Boulder CO 80301



of-sight.



Summary:

Conclusion:

- observed by high-resolution telescopes such as DKIST.