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Henningsen Senior Thesis Announcement

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Tue, May 2, 2023 at 3:51 PM

Astrophysics Senior Thesis Defense Announcement for Daniel Henningsen

Date: 5/4/2023

Room and/or Zoom link:

ISTB-4 room 696

<https://asu.zoom.us/j/2135203391?pwd=eHRUY01NTU9hUEVIU3pqLzhHM09LQT09>

Password: 619771

Time: 11:00 AM

Faculty Advisor: Rogier Windhorst

Committee Members: Timothy Carleton, Jacqueline Monkiewicz

Modeling Earth-shine Bias in SKYSURF Database

The aim of this paper is to investigate and model for the impact of Earth-shine light on measurements of sky-surface brightness measurements found in Windhorst et al. (2022), Carleton et al. (2022), and O'Brien et al. (2022). The model is based on observational data and is deemed acceptable for the needs of the SKYSURF, although further improvements could be made and further investigation is required to refine the model. The results show that the model as constructed fits the observational data and can be used to estimate how much of the sky-value measurement corrections are a result of Earth-shine. Overall, this paper contributes to the understanding of the impact of Earth-shine on measurements of sky-surface brightness and provides a useful baseline model for future research in this area

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