

The Simons Observatory:
Science Goals and Forecasts for the Enhanced Large Aperture Telescope

AUTHOR CONTRIBUTIONS

We include a list of (optional) sentences from coauthors documenting their contributions. This work was led by Susan Clark and Colin Hill.

Susan Clark co-led the conception, organization, writing, and editing of this work. She coordinated the Galactic, Solar System, point-source, and time-domain forecasts, contributed to the Galactic science and transient forecasts, led the writing of Sections 3.6 and 3.7, coordinated and contributed to the writing of Sections 3.5 and 3.8-3.10, and co-led the writing of Sections 1, 2, and 4.

Jo Dunkley contributed to the writing for many of the sections and early coordination of forecasting work, building on work for SO proposals.

Brandon Hensley contributed to the writing of Sections 3.6 and 3.7.

Carlos Hervías-Caimapo led the cosmic birefringence forecast and contributed to the writing of Section 3.3.

Colin Hill co-led the conception, organization, writing, and editing of this work. He constructed the foreground-cleaned noise power spectra used in the cosmological science forecasts, coordinated the cosmology and extragalactic (non-point-source) science forecasts, led the writing of Sections 3.1, 3.2, and 3.4, coordinated the writing of Sec. 3.3, and co-led the writing of Sections 1, 2, and 4.

Adam Hincks helped calculate forecasts in Sections 3.5 and 3.10 and drafted text for Appendix A. He was an internal reviewer of the first draft of the paper and provided feedback on subsequent drafts.

Anna Ho led the analysis and writing of Section 3.10.

Erika Hornecker contributed to writing in Section 3.5.

Yaqiong Li contributed to the transient forecast in Section 3.10.

John Orlowski-Scherer analyzed the results reported in Section 3.9 and led the writing of that section.

Bruce Partridge read critically both early and final drafts.

Cristian Vargas contributed to the forecasts in Section 3.5, including calculations, writing, and the creation of Figure 6 and Table 3.

Luca Di Mascolo, Tony Mroczkowski, and Eve Vavagiakis worked on the concept and implementation of Figure 5.

Mathew Madhavacheril helped with estimation of the co-added instrument sensitivity (Table I), gravitational lensing and neutrino mass forecasts and point source sensitivity forecasting. He also contributed text to Appendix A.