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A Stellar Intensity Interferometry Target Planner JONATHAN DAVIS, NOLAN MATTHEWS, DAVID KIEDA, University of Utah — Over the past decade, a renewed interest has taken place in using Stellar Intensity Interferometery (SII) for performing high angular resolution measurements of stars at visible wavelengths. Areas of study include studying stellar limb-darkening, rapid-rotators, and potentially performing model-independent imaging. A general purpose SII target planner has been created for determining the best stars to observe for any given night. The catalog is generalized and allows users to customize the catalog for a given observatory. Using information from seven different star catalogs, a master SII catalog is constructed. Stars are then ranked based on the ability to make stellar diameter estimates, which is dependent mainly on the estimated angular diameter and apparent brightness. Once stars are ranked, it also allows the user to perform a visual analysis of the given targets.

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