

Abstract Submitted
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The StarBase Observatory Telescopes JANVIDA ROU, University of Utah Dept. of Physics and Astronomy, DERRICK KRESS, University of Utah Dept. of Electrical & Computer Engineering, RYAN PRICE, STEPHAN LEBOHEC, University of Utah Dept. of Physics and Astronomy — The two telescopes of the StarBase Observatory in Grantsville, Utah were deployed as a platform to evaluate technical approaches and potentials of reviving stellar intensity interferometry to be used in future gamma ray observatories. The StarBase telescopes are equipped with photo-multipliers, which allow for recording of both DC and AC components of star light. The DC signal is measured in the camera and the AC (300MHz) is communicated to the central building via analog optical fiber for correlation. The methods and equipment tested at the StarBase Observatory will be used to improve future gamma ray observatories which could operate as intensity interferometers. Large telescope arrays with intensity interferometry capabilities will reveal a great deal of information about hot stars by providing images with resolution better than 0.1mas. In this paper, we will present the status of the observatory.

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