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Searching for the Darkest Galaxies: Covering the Entire Southern Sky with DECam

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Milky Way satellite dwarf galaxies are among the oldest, smallest, and most dark matter dominated galaxies in the known Universe. The study of these tiny galaxies can help shed light on the nature of dark matter and the mysteries of galaxy formation. Over the last two years, efforts using the Dark Energy Camera (DECam) have nearly doubled the known population of Milky Way satellite galaxies. However, to date, only a fraction of the southern sky has been uniformly imaged by DECam. We will present results from two new surveys, the Magellanic Satellites Survey (MagLiteS) and the Blanco Imaging of the Southern Sky (BLISS) survey, which are using DECam to image the southern sky to unprecedented depths.

Authors: DRLICA-WAGNER, Alex (Fermilab); BECHTOL, Keith (LSST)

Presenters: DRLICA-WAGNER, Alex (Fermilab); BECHTOL, Keith (LSST)

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