



MEETING OF THE AMERICAN PHYSICAL SOCIETY DIVISION OF PARTICLES AND FIELDS

Contribution ID: 356

Type: **Presentation**

## Searching for Dwarf Galaxies with DECam

*Monday, 31 July 2017 11:25 (20 minutes)*

Milky Way satellite dwarf galaxies are some of the oldest, smallest, and most dark matter dominated galaxies in the known universe. The study of these tiny dwarf 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. I 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 at unprecedented depths.

**Primary author:** DRLICA-WAGNER, Alex (Fermilab)

**Presenter:** DRLICA-WAGNER, Alex (Fermilab)

**Session Classification:** Cosmology and Astrophysics

**Track Classification:** Cosmology and Astrophysics