

Abstract Submitted
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The DECam Gravitational Waves Follow-up Program MARCELLE SOARES-SANTOS, Fermilab, DARK ENERGY SURVEY COLLABORATION — We report on the status of a program to search for the optical counterparts of gravitational wave sources using the Dark Energy camera (DECam) on the Blanco 4-m telescope at CTIO. This program is a joint effort between the community and the Dark Energy Survey (DES). DECam has a 3 sq-deg field of view, and typically reaches a limiting magnitude of $i,z = 23$ for 90 sec exposure times. As such it is one of the most efficient and rapid instruments for deep searches of the large gravitational wave error regions. In this talk we describe our observing strategies and on-going efforts based on the first Advanced LIGO science run.

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