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CALET search for Gamma-ray Counterparts of Gravitational Wave Events

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The CALorimetric Electron Telescope (CALET) cosmic ray detector on the International Space Station (ISS) has been in operation since its launch in 2015.

The main instrument, the CALorimeter (CAL), is monitoring the gamma ray sky from ~ 1 GeV up to ~ 10 TeV with a field-of-view of about 2 sr for more than five years.

In this paper, we describe the analysis of gamma ray candidate events observed by CALET and report on a search for gamma-ray emission from gravitational wave event candidates announced by the LIGO/Virgo third observing run since 2019 April.

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