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Prospects for LACT observation of gamma ray sources in LHAASO catalog

Being an important supplement of LHAASO observatory, Large Array of Cherenkov Telescope (LACT) is designed to study the morphology and spectrum of ultra-high energy gamma ray sources observed by LHAASO experiment. Due to the strong sky survey ability for gamma ray sources of LHAASO and the high angular resolution of LACT, the combination of the two experiments will observe the gamma ray sources with unprecedented precision. In this poster, we will give prospects of LACT observation for the gamma ray sources in LHAASO catalog. The LACT telescopes only can operated in night. Furthermore, they can not be run in the summer because of the frequently rain. The calculation of observed periods for the sources is very complicated. Therefore, we will describe the calculation of observed periods for each sources in detail and give the results. In addition, taking the energy spectrum of gamma ray sources from LHAASO and considering the effective areas of LACT at different zenith, we will prospect the events that LACT can observed in one year. Based on above study, we will give the preliminary observation plan of LACT for the sources in LHAASO catalog.

Summary

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