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Detection of UHE emission from Binary system with LHAASO

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The binary system is an idea astrophysical laboratory to test physical laws at very extreme environment. With the improvement of sensitivity for gamma ray telescopes, gamma ray signals from high mass binary systems have also been detected. However, the detection of gamma rays from binary system is difficult due to the low flux and instability of signal, and the mechanism for emission is under debate. LHAASO is a multi-purpose detector working at ultra-high energy range. It can also operate at almost full duty-cycle and has a wide field of view, which is suitable for binary detection. With the operation of LHAASO, there are hints for UHE emission from binary systems, which may open a new window to get knowledge of these systems. This report will give a introduction for binary detection with LHAASO.

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