

Abstract Submitted
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Detection and Rapid Notification of Flaring Sources with HAWC

IAN WISHER, UW-Madison, HAWC COLLABORATION — We will present a method for rapid detection and notification of flaring states of blazars using the High Altitude Water Cherenkov (HAWC) Observatory. The HAWC detector is an extensive air shower instrument with a high duty cycle, large field of view, and extraordinary sensitivity to TeV gamma rays. This allows HAWC to perform unbiased monitoring of a large number of different sources for flaring states and catch rare events. Once a flaring state is detected, rapid notifications can be sent to other observatories to facilitate follow-up observations and multi-wavelength measurements. In addition to presenting the sensitivity of the method, we will also present results from a search for blazar flares with HAWC data taken to date.

Ian Wisher
UW-Madison

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