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## Monitoring the northern sky and follow-up analysis of the multi-messenger alerts with LHAASO-WCDA

With high duty cycle, wide field of view and high sensitivity, LHAASO-WCDA is a promising facility to monitor very-high-energy transient extra-galactic sources unbiasedly. We developed an real-time monitoring system based on LHAASO-WCDA observations which will send alerts within Half a day at most if there is any detection. In the past one year of operation, the system has detected more then ten flare events from IC 310, 1ES 1959+650, BL Lac, etc., and triggered multi-band follow-up observations including VERITAS, Fermi-LAT, Swift-BAT. At the same time, we are actively following up on multi-band and multi-messenger alerts, including X-ray, GeV, neutrino, etc. In this poster, I will present the preliminary results of the sources detected by the monitoring system and the results of follow-up analysis of neutrino alerts.

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