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LST-1 observations and multiwavelength study of blazar 1ES 1218+304

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The blazar 1ES 1218+304 is a high-frequency peaked BL Lac object at a cosmological redshift z of 0.182. It was first detected in Very-High Energies (VHE, E>100 GeV) by the MAGIC telescope in 2006. 1ES 1218+304 is known for showing strong flux variability with occasional outbursts across the electromagnetic spectrum. This source also exhibits an atypically hard VHE spectrum. The Large-Sized Telescope prototype (LST-1) for the Cherenkov Telescope Array Observatory (CTAO) observed 1ES 1218+304 during its high activity in the VHE band from February to April 2023. In this presentation, we report the detection of 1ES 1218+304 by LST-1 above 100 GeV with >5 σ significance along with a preliminary multiwavelength study including quasi-simultaneous observations by Fermi-LAT, Swift-XRT, and Swift-UVOT.

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