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BHTOM telescope network for LSST time-domain follow-up

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The Rubin's LSST will transform time-domain astronomy while creating an unprecedented demand for rapid and sustained follow-up observations. BHTOM.space —the Black Hole Target and Observation Manager— coordinates a global network of nearly 200 professional and amateur telescopes and provides automated processing, calibration, and standardisation of heterogeneous photometric data. Originally developed to support Gaia Science Alerts, BHTOM now covers a broad range of transient and variable phenomena, including microlensing events, supernovae, stellar variability, quasars, and Solar System objects. In this talk, I will present the network's capabilities, recent science applications, preparations for Rubin/LSST alert-driven observing and the connections to LSST brokers. I will also discuss how BHTOM can connect LSST discoveries with distributed follow-up resources, turning observations from diverse instruments into consistent, science-ready light curves and enabling coordinated participation by the Polish and international small-telescope communities.

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