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LHAASO Discovery of a Ultrahigh-energy gamma-ray bubble in Cygnus X

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The Large High Altitude Air Shower Observatory (LHAAS) discovered a gamma-ray bubble spanning at least 100 deg^2 in ultra-high energy (UHE, >100TeV) band up to a few PeV in the direction of the star-forming region Cygnus X, implying the presence super PeVatron(s). I will introduce this study including LHAASO's observation and its implication for the origin of PeV cosmic rays.

Primary author: LIU, Ruoyu (Nanjing University)

Presenter: LIU, Ruoyu (Nanjing University)

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