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Search for New Resonance in Photon and Jet final State using CMS Data

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Several theoretical models of Beyond the Standard Model (BSM) physics predicts the production of new resonances at hadron collider experiments. This study, in particular, is focused on the search for Quantum Black hole (QBH) and existence of substructure of light and heavy flavor quarks in the photon + jet final state in the proton-proton collisions at a centre of mass energy of 13 TeV using the data collected by the CMS detector in the LHC Run-2 period. The exclusion limits are set on the model parameters in the absence of a signal in the data.

Primary author: Ms BABBAR, Jyoti (Panjab University (IN))

Presenter: Ms BABBAR, Jyoti (Panjab University (IN))

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