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Photon production and correlations in pp and pPb collisions with LHCb

Saturday 7 July 2018 14:00 (18 minutes)

LHCb offers the opportunity to perform unique correlation and production measurements at forward rapidity beyond the heavy-flavour sector: direct photons can be reconstructed with good resolution via conversions in the material of the detector, primary tracks can be exploited to perform precise correlation measurements. Recent measurements including the nuclear modification factor of isolated photons in proton-lead collisions at sqrt(s)=5 TeV and the measurement of the dihadron correlation as function of pseudorapidity eta and azimuthal angle phi in pp at sqrt(s)=13 TeV will be shown. The measurements will be put into context with physics of the saturation scale and and with the collective behaviour observed in small collision systems.

Author: Dr BHOM, Jihyun

Presenter: Dr BHOM, Jihyun

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