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Pseudorapidity and transverse momentum dependence of flow harmonics in p Pb and PbPb collisions (Article) [\(Open Access\)](#)

Sirunyan, A.M.^a, Tumasyan, A.^a, Adam, W.^b, Ambrogi, F.^b, Asilar, E.^b, Bergauer, T.^b, Brandstetter, J.^b, Brondolin, E.^b, Dragicevic, M.^b, Erö, J.^b, Flechl, M.^b, Friedl, M.^b, Frühwirth, R.^{b,gr}, Ghete, V.M.^b, Grossmann, J.^b, Hörmann, N.^b, Hrubec, J.^b, Jeitler, M.^{b,gr}, König, A.^b, Krättschmer, I.^b, Liko, D.^b,

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Abstract

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Measurements of azimuthal angular correlations are presented for high-multiplicity pPb collisions at $s_{NN}=5.02\text{TeV}$ and peripheral PbPb collisions at $s_{NN}=2.76\text{TeV}$. The data used in this work were collected with the Compact Muon Solenoid (CMS) detector at the European Organization for Nuclear Research (CERN) Large Hadron Collider (LHC). Fourier coefficients as functions of transverse momentum and pseudorapidity are studied using the scalar product method; four-, six-, and eight-particle cumulants; and the Lee-Yang zero technique. The influence of event plane decorrelation is evaluated using the scalar product method and found to account for most of the observed pseudorapidity dependence. © 2018 CERN. for the CMS Collaboration. Published by the American Physical Society under the terms of the Creative Commons Attribution 4.0 International license.

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Funding sponsor	Funding number	
Pakistan Atomic Energy Commission		Khachatryan, V. , Sirunyan, A.M. , Tumasyan, A. Acronym (2017) <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> PAEC
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