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Non-Gaussian elliptic-flow fluctuations in PbPb collisions at root S-NN=5.02 TeV

By: Sirunyan, AM (Sirunyan, A. M.)^[1]; Tumasyan, A (Tumasyan, A.)^[1]; Adam, W (Adam, W.)^[2]; Ambrogio, F (Ambrogio, F.)^[2]; Asilar, E (Asilar, E.)^[2]; Bergauer, T (Bergauer, T.)^[2]; Brandstetter, J (Brandstetter, J.)^[2]; Brondolin, E (Brondolin, E.)^[2]; Dragicevic, M (Dragicevic, M.)^[2]; Ero, J (Eroe, J.)^[2] ...More

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PHYSICS LETTERS B

Volume: 789 Pages: 643-665

DOI: 10.1016/j.physletb.2018.11.063

Published: FEB 10 2019

Document Type: Article

[View Journal Impact](#)

Abstract

Event-by-event fluctuations in the elliptic-flow coefficient $v(2)$ are studied in PbPb collisions at root S-NN = 5.02 TeV using the CMS detector at the CERN LHC. Elliptic-flow probability distributions $p(v(2))$ for charged particles with transverse momentum $0.3 < p(T) < 3.0$ GeV/c and pseudorapidity $|\eta| < 1.0$ are determined for different collision centrality classes. The moments of the $p(v(2))$ distributions are used to calculate the $v(2)$ coefficients based on cumulant orders 2, 4, 6, and 8. A rank ordering of the higher-order cumulant results and nonzero standardized skewness values obtained for the $p(v(2))$ distributions indicate non-Gaussian initial-state fluctuations. Bessel-Gaussian and elliptic power fits to the flow distributions are studied to characterize the initial-state spatial anisotropy. (C) 2018 The Author(s). Published by Elsevier B.V.

Keywords

Author Keywords: Event-by-event elliptic flow; Non-Gaussian flow fluctuations; Unfolding

KeyWords Plus: QUARK-GLUON PLASMA; PARTICLE-PRODUCTION; NUCLEAR COLLISIONS; PERSPECTIVE; ANISOTROPY; VISCOSITY

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Accession Number: WOS:000457165400087

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