Long-range angular correlations on the near and away side in $\mathrm{p}-\mathrm{Pb}$ collisions at.

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Long-range angular correlations on the near and away side in pâ€"Pb collisions at
sNN=5.02 TeV â~†
ALICE Collaboration â€ Maksym Zyzak bd
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Abstract
Angular correlations between charged trigger and associated particles are measured by the ALICE detector in pâ€"Pb collisions at a nucleonâ€"nucleon centre-of-mass energy of 5.02 TeV for transverse momentum ranges with
$0.5<\mathrm{pT}$, assoc $<\mathrm{pT}$, trig $<4 \mathrm{GeV} / \mathrm{c}$. The correlations are measured over two units of pseudorapidity and full azimuthal angle in different intervals of event multiplicity, and expressed as associated yield per trigger particle. Two long-range ridge-like structures, one on the near side and one on the away side, are observed when the per-trigger yield obtained in low-multiplicity events is subtracted from the one in high-multiplicity events. Thn nunocr nnthn nonr - -ide is qualitatively similar to that recently reported by the CMS Typesetting math: 100\% xcess on the away-side is reported for the first time. The two-
ridge structure projected onto azimuthal angle is quantified with the second and third Fourier coefficients as well as by near-side and away-side yields and widths. The yields on the near side and on the away side are equal within the uncertainties for all studied event multiplicity and
pT bins, and the widths show no significant evolution with event multiplicity or pT. These findings suggest that the near-side ridge is accompanied by an essentially identical away-side ridge.

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