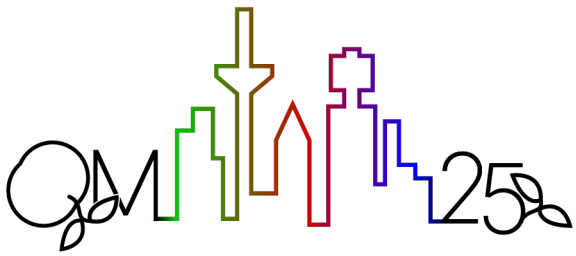

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$\mathrm{K}^0_\mathrm{S}\mathrm{K}^0_\mathrm{S}$ femtoscopy in Pb–Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ from the LHC ALICE experiment

Results are shown from a one-dimensional femtoscopic analysis of $\mathrm{K}^0_\mathrm{S}\mathrm{K}^0_\mathrm{S}$ from Pb–Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV. The centrality and transverse momentum in the pair reference frame k_{T} dependence is analyzed. These results are compared to previous results from ALICE at 2.76 TeV (J. Adams et al., 2015, Physical Review C 92, 054908). The data is also compared to predictions from a hydrokinetic model, showing significant deviations. Additional comparisons are also made to a recently published paper from the CMS Collaboration (A. Tumasyan et al., 2024, Physics Letters B 857, 138936) also resulting in significant differences in both extracted radii R and correlation strength λ.

Category

Experiment

Collaboration (if applicable)

ALICE

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