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High Energy Physics - Experiment

Jet reconstruction and jet background classification with the ALICE experiment in PbPb collisions at the LHC

Christian Klein-Boesing, for the ALICE Collaboration

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For a quantitative interpretation of reconstructed jet properties in heavy-ion collisions it is paramount to characterize the contribution from the underlying event and the influence of background fluctuations on the jet signal. In addition to the pure number fluctuations, region-to-region correlated background within one event can enhance or deplete locally the level of background and modify the jet energy. We show a first detailed assessment of background effects using different probes embedded into heavy-ion data and quantify their influence on the reconstructed jet spectrum.

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