

Production of identified particles in pp and PbPb collisions at LHC energies with the ALICE detector

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The ALICE experiment is taking data since 2009, with proton and lead beams. In this talk, we review the different particle identification techniques used by the experiment and the excellent performance during the first year of data taking. We summarize the current results on identified particle spectra in pp collisions at $\sqrt{s} = 900$ GeV and 7 TeV, and in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. In particular, the energy dependence of the spectral shapes of the pp data is discussed and the results are compared to previous experiments and commonly used Monte Carlo models. The evolution of the particle spectra in PbPb with collision centrality is presented. Various particle ratios are shown, including the baryon/meson ratio (Λ/K_0). Finally, we conclude with an overview of the ongoing analyzes on identified particles.

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