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Freeze-out state from analysis of transverse momentum spectra in Pb+Pb collisions at 2.76 ATeV

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We analyse identified hadron spectra in transverse momentum with the help of blast-wave model. Our approach properly includes all resonance decays contributing to hadron production. It is shown that there is no window in the transverse momentum where this contribution can be safely neglected in order to use simpler analytical formulas in the fit procedure. Based on the comparison of theoretical results to data we identify the fiducial range for the fit. The fit is also performed on Lambda's, Xi's and Omega's and the possibility of a different freeze-out time for these species is discussed. The freeze-out temperatures and transverse velocities for different centralities are compared with previously published ALICE results and the values from RHIC.

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