Systematics of strangeness production in p+p, p+Pb and Pb+Pb collisions at 158 AGeV/c

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Abstract

New data of the CERN experiment NA49 on the correlation of strangeness production with projectile stopping in p+p collisions allow the establishment of links between the different types of hadronic interactions. The hypothesis that a common stopping mechanism determines particle production and strangeness content can be tested using the measured net proton distribution for an extrapolation of p+p data to p+Pb and Pb+Pb collisions both at different centralities. Total yields and phase space distributions of the ϕ-meson will be presented and compared with those of charged kaons.