Cascade Baryon Production in p+p, p+A and A+A Interactions at 158 AGeV

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Abstract

Ξ^- and $\bar{\Xi}^+$ baryons have been measured with the NA49 detector over a wide range of hadronic reactions making use of full pt coverage in a cms rapidity interval from -1.0 to +1.0 units. The first measurement of cross section and pt and y distributions over this acceptance interval in p+p interactions, as well as centrality-controlled p+Pb reactions is presented. Rapidity distribution of Ξ^- and $\bar{\Xi}^+$ in central PbPb collisions and a comparative study of $\bar{\Xi}^+/\Xi^-$ ratio in all these reactions will be discussed.

Preprint submitted to Elsevier Preprint *20 December 2000*