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Kaon interaction with Bc meson in heavy-ion collision

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At LHC energy, much higher than previously achieved the production of strangeness would saturate leading to the fireball of matter expanding and breaking apart. Accordingly, they would provide, in turn, a large abundance of strange hadrons along with other particles of heavy flavor quarks, which would be interacting among themselves. In this presentation we choose to examine the cross sections of Bc absorption by K mesons calculated by using the meson exchange model based on a hadronic Lagrangian having SU (5) symmetry. The calculated cross sections are found to be in the ranges of 3 to 12, 0.2 to 2, 3 to 11, and 0.2 to 2 mb for various processes with varying form factors. The scale of the variations of these cross sections are compared with the Bc absorption cross section by pions calculated using the same model.

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