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Hadronic effects on the X(3872) meson abundance in heavy ion collisions

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We study the absorption of hadronic molecules such as the X(3872) by pions and rho mesons during the hadronic stage of heavy ion collisions. We also investigate the possibilities of formation of hadronic molecules during different evolution stages of the hadronic phase. We show that the absorption cross section and its thermal average are strongly dependent on the structure and quantum number of X(3872). We thus suggest that studying the abundances of a set of exotic hadrons provide a chance to infer their structures as well as their production mechanisms in relativistic heavy ion collisions.

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