

XVth Quark Confinement and the Hadron Spectrum



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Exotic configurations and particle production in heavy ion collisions

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Using a quark model with parameters that well reproduce the ground state hadron masses, we discuss what configurations are attractive and contribute to exotic configurations. We then discuss how these configurations conspire to enhance production of certain particles in heavy ion collisions when quark-gluon plasma is formed. As an illustration, we discuss recent observations of Ξ_c/D enhancement in high multiplicity high-energy proton-proton or ultrarelativistic heavy-ion collisions (Ref: PLB851 (2024) 138569).

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