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## Hadron production in hot and dense nuclear matter

We study the hadron yield ratios at finite value of baryon density and temperature by means of an effective relativistic mean-field model with the inclusion of the full octet of baryons, the Delta-isobars degrees of freedom and the lightest pseudoscalar and vector mesons. These last particles are considered in the so-called one-body contribution, taking into account of an effective chemical potential and an effective mass depending on the self-consistent interaction between baryons. The analysis is performed by requiring the Gibbs conditions on the global conservation of baryon number, electric charge fraction and zero net strangeness. In this context, we study the influence of the Delta-isobars degrees of freedom in the behavior of different hadron ratios and strangeness production.

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