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Baryons in the plasma: in-medium effects and parity doubling

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We investigate the fate of the light baryons in the hadronic and the quark-gluon plasma. In the confined phase a strong temperature dependence is seen in the masses of the negative-parity groundstates, while at high temperature parity doubling emerges. We study baryons with different strangeness and find a noticeable effect of the heavier s quark. This study uses nonperturbative lattice simulations, employing the FASTSUM anisotropic Nf=2+1 ensembles.

List of tracks

Freeze-out, hadronisation and statistical models

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