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Strange baryons below and above the deconfinement transition

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We investigate the fate of strange baryons in the hadronic gas 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.

Summary

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