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Recent results in the extended linear sigma model: (axial)vector meson in-medium masses and finite volume effects via low momentum cutoff

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Effective models play an important role in the investigation of the phase structure of the strongly interacting matter. Such an effective model is the (axial) vector meson extended linear sigma model (ELSM), which was already analyzed at finite temperature and gave predictions to thermodynamical quantities in good agreement with current lattice results. Recently, several advancements were done in the ELSM from which we plan to present two. Foremost, the (axial) vector in-medium masses, that were calculated by taking into account the (axial) vector meson-fermion interaction. Secondly, the effect of finite volume on the thermodynamics and the phase diagram, which was studied within the ELSM via a low momentum cutoff.

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