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Columbia plot, critical point and bound states in dense QCD

Converging results from different approaches locate the critical end point (CEP) of QCD at large chemical potential, i.e. in the realm of dense QCD. We summarise recent theoretical results within functional methods on the location of the CEP and its variation under systematic changes of the light and strange quark masses. We furthermore discuss the physics at large chemical potential including the properties of bound states and the possible appearance of interesting new phases.

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