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Locating the critical end point of QCD

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I will give an overview on our recent results for the phase diagram of QCD with $N_f=2+1$ and $N_f=2+1+1$ flavors. We use a combination of lattice and Dyson-Schwinger methods to determine the chiral and deconfinement order parameters at finite temperature and chemical potential. In a recent exploratory study we also give a first estimate on the influence of baryon effects on the location of the critical end-point. As a result we find a critical end-point at large chemical potential in the vicinity of the chiral critical line extrapolated from lattice QCD.

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