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Abstract for an Invited Paper for the DNP19 Meeting of the American Physical Society

QCD phase diagram from lattice PETER PETRECZKY, Brookhaven National Laboratory

I will discuss recent lattice results on the QCD phase diagram at non-zero temperature and density using Taylor expansion. I will present results on the chiral and deconfinement aspects of the QCD transition as function of the light quark mass. I will clarify the relation of the phase transition at zero quark mass to the crossover and critical point at small densities and physical pion masses.