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## Study of finite temperature QCD with 2+1 flavors via Taylor expansion and imaginary chemical potential

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We study QCD with 2+1 flavors at nonzero temperature and nonzero chemical potential. We present preliminary results obtained from lattice calculations performed with an improved staggered fermions action (p4-action) on lattice with temporal extent  $N_t = 4$  on a line of constant physics with the strange quark mass adjusted to its physical value and the pion mass of about 220 MeV. We focus our study on a range of temperatures  $0.937 < T/T_c < 1.072$ .

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talk

**Primary author:** FALCONE, Rossella (Bielefeld University, Germany)

**Co-authors:** Prof. LAERMANN, Edwin (Bielefeld University); Dr LOMBARDO, Maria Paola (LNF INFN)

**Presenter:** FALCONE, Rossella (Bielefeld University, Germany)

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