## Quark Matter 2015 - XXV International Conference on Ultrarelativistic Nucleus-Nucleus Collisions



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## QCD phase diagram from analytical continuation

Monday 28 September 2015 11:55 (20 minutes)

We extrapolate the QCD cross-over temperature from imaginary to real chemical potentials. Our calculations are based on new continuum extrapolated lattice simulations using the 4stout staggered actions with a lattice resulution up to Nt=16. The simulation parameters are tuned so that the strangeness neutrality is maintained, as it is in a heavy ion collision. We see a consistency between the Taylor expansion and the analytical continuation method.

We also use the lattice data to extrapolate the equation of state to real chemical potentials.

## On behalf of collaboration:

NONE

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