



Contribution ID: 189

Type: Talk

## Quark number susceptibilities from fugacity expansion at finite chemical potential

*Friday, 27 June 2014 15:15 (20 minutes)*

Generalized quark number susceptibilities have been proposed to be good probes for the phase transition in QCD and in the search of a critical point. In this work we explore the possibilities of the expansion in the fugacity parameter  $e^{\mu\beta}$  which has features which make, in particular, quark number related bulk observables easily accessible. We will present results at finite chemical potential up to the 4th order of generalized susceptibilities, its ratios and comparisons to model calculations.

**Primary authors:** Prof. GATTRINGER, Christof (University of Graz); SCHADLER, Hans-Peter (University of Graz)

**Presenter:** SCHADLER, Hans-Peter (University of Graz)

**Session Classification:** Nonzero temperature and Density

**Track Classification:** Nonzero Temperature and Density