



Contribution ID: 73

Type: **not specified**

The critical end point through observables

Tuesday 9 September 2014 17:10 (20 minutes)

The critical phenomena of strongly interacting matter are presented in the frame of an effective theory at finite temperatures. The phase transitions are considered in systems where the critical end point (CEP) is a distinct singular feature existence of which is dictated by the chiral dynamics. The physical approach to the effective CEP is studied via the influence fluctuations of Bose-Einstein correlations for observed particles to which the critical end mode couples. The results may be the subject of the physical program at NICA and other heavy-ion machines to search the hadronic matter produced at extreme conditions.

Summary

The critical phenomena of strongly interacting matter are presented in the frame of an effective theory at finite temperatures. The phase transitions are considered in systems where the critical end point (CEP) is a distinct singular feature existence of which is dictated by the chiral dynamics. The physical approach to the effective CEP is studied via the influence fluctuations of Bose-Einstein correlations for observed particles to which the critical end mode couples. The results may be the subject of the physical program at NICA and other heavy-ion machines to search the hadronic matter produced at extreme conditions.

Author: Prof. KOZLOV, Gennady (JINR)

Presenter: Prof. KOZLOV, Gennady (JINR)

Session Classification: Parallel IV: D8 Deconfinement

Track Classification: Section D: Deconfinement