

# Generalized susceptibilities near the QCD critical point

## Content

The study of hadronic matter at high temperatures and baryon densities plays a central role in exploring the QCD phase diagram and the possible existence of a critical point. Generalized susceptibilities, which are related to cumulants experimentally accessible in heavy-ion collisions, are particularly sensitive observables and therefore valuable tools in this search. In this work, the hadron resonance gas model with van der Waals interactions, which exhibits a critical point, is used to investigate the behavior of these susceptibilities. In addition, a proposal for measuring susceptibility ratios associated with strangeness is presented for the MPD-NICA experiment.

## Summary

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