

# XVII Polish Workshop on Relativistic Heavy-Ion Collisions: Phase diagram and Equation of State of strongly interacting matter



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## Search for the Critical Point in NA61/SHINE

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The existence and location of the QCD critical point are key topics of experimental and theoretical research in heavy ion collisions. The NA61/SHINE experiment at CERN SPS provides valuable data to study how different correlation and fluctuation observables depend on collision energy and the size of colliding nuclei.

This contribution will summarize the status of NA61/SHINE critical point searches in nucleus-nucleus collisions. Including proton and  $h^-$  - intermittency analysis, studies of multiplicity and multiplicity-transverse momentum fluctuations, fluctuations of net-electric charge, and Bose-Einstein (HBT) correlations in femtoscopy analysis.

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