

30 years of strong interactions: a three-day meeting in honor of Joseph Cugnon and Hans-Jürgen Pirner

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Phase Structure of Strongly Interacting Theories and Finite-Size Effects

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Strongly-interacting theories of fermions are of great interest both experimentally and theoretically. While heavy-ion collision experiments provide us with information on hot and dense QCD, experiments with ultracold trapped atoms provide an accessible and controllable system where quantum many-body phenomena can be studied experimentally in great detail. Our theoretical understanding of these theories have improved in recent years. However, finite-size effects in these systems are not yet fully understood. During my time as a graduate student, Prof. Pirner already encouraged me to look into these problems, in particular with respect to heavy-ion collision experiments. In the present talk, I review some aspects of finite-size effects and the role that they are playing in strongly-interacting fermionic theories.

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