

# Seminar

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## Stress-energy-momentum tensor on the lattice

We perform various lattice numerical simulations with the stress-energy-momentum tensor in  $SU(3)$  Yang-Mills theory. The energy-momentum tensor defined through the Yang-Mills gradient flow is used in these analyses. We explore thermodynamics, spatial distribution of stress tensor in quark-anti-quark system, nonzero-temperature Casimir effect, as well as the correlation functions. Extensions of the analysis to other new observables and full-QCD simulations will also be discussed.

**Tuesday, 02.04.2019, 14:15 Uhr**

**Place: D6-135**