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## QCD thermodynamics in finite volume

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**Abstract content** (Max 300 words) **Formatting** **Special chars**

Thermodynamic bulk properties (pressure, energy and entropy densities) of strongly interacting matter are usually discussed in the infinite-volume limit. We here re-derive these quantities in finite regions of space, in different geometries, in order to quantify finite-size effects. This study is motivated by the fact that, in heavy-ion experiments, the evolution of the produced quark-gluon plasma is often described by hydrodynamic models, which compute the evolution of these bulk properties in discretized space(time) cells.

**Apply to be considered for a student award (Yes / No)?**

Yes

**Level for award (Hons, MSc, PhD, N/A)?**

MSc

**Main supervisor (name and email) and his / her institution**

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**Would you like to submit a short paper for the Conference Proceedings (Yes / No)?**

Yes

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Yes

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