



Contribution ID: 12

Type: **Talk**

Thermal equilibrium states in quantum field theories

Wednesday 10 October 2012 16:00 (30 minutes)

I review the approaches to descriptions of thermal equilibrium states in both quantum mechanics and quantum field theory. I argue, that the description via (Gibbs) density functionals is not sufficient to describe thermal equilibrium states in generic situations. I show a generalization of Gibbs states, the so-called KMS-states, and their application to quantum field theory.

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Session Classification: Student session