Contribution ID: **4** Type: **Oral Presentation**

KMS states

Thursday, 12 July 2012 16:00 (20 minutes)

Abstract content
   (Max 300 words)

The concept of equilibrium in dynamical quantum mechanical systems is expressed in the mathematically rigorous formalism of operator algebras. The equilibrium state of the canonical ensemble at inverse temperature &beta can be characterised as a state over the C-*algebra of observables which satisfies the KMS boundary condition for the one-parameter*-automorphism group derived from the notion of time evolution in the Heisenberg picture of quantum mechanics.

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

No

Level for award
 (Hons, MSc,
   PhD)?

Hons

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

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

No

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