

1078-37-11

**Suliman Albandik\*** ([suliman@uni-math.gwdg.de](mailto:suliman@uni-math.gwdg.de)), Mathematisches Institut, Georg-August Universität Göttingen, Bunsenstraße 3-5, 37073 Göttingen, Germany. *KMS states on  $C^*$ -algebras associated to self-similar groups.*

In Quantum statistical mechanics, KMS states are thermal equilibrium states associated to a one parameter group of automorphisms of time evolution. In this talk I shall consider the question of existence and uniqueness of KMS-states on Cuntz-Pimsner-type  $C^*$ -algebras, due to Nekrashevych, which are naturally associated to self-similar groups and hence to dynamical systems. (Received December 14, 2011)