

A KMS state on the resolvent CCR algebra

Tomohiro KANDA

This is a joint work with professor Taku Matsui. We consider equilibrium states of weakly coupled anharmonic quantum oscillators on \mathbf{Z} . We consider the Resolvent CCR Algebra introduced by D.Buchholtz and H.Grundling, and we show that the infinite volume limit of equilibrium states satisfies the KMS (Kubo-Martin-Schwinger) condition with good regularity(= locally Fock representation). Uniqueness of the regular KMS states is proven as well.