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Structure of modular invariant subalgebras in free Araki-Woods factors. (English)

Zbl 1369.46053

Anal. PDE 9, No. 8, 1989-1998 (2016).

Summary: We show that any amenable von Neumann subalgebra of any free Araki-Woods factor that is globally invariant under the modular automorphism group of the free quasifree state is necessarily contained in the almost periodic free summand.

MSC:

46L10 General theory of von Neumann algebras

46L36 Classification of factors

Cited in 4 Documents

Keywords:

free Araki-Woods factors; Popa's asymptotic orthogonality property; type III factors; ultraproduct von Neumann algebras

Full Text: DOI arXiv