

**CLASSIFICATION FOR THE ACTIONS
OF A COMPACT ABELIAN GROUP
ON A SEMIFINITE REAL W^* -ALGEBRA**

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In this article, we study the actions of groups on real von Neumann algebras. A complete classification is obtained for the actions of arbitrary finite groups on hyperfinite real factors of type II_1 . Using Takesaki's theorem for real von Neumann algebras, we classify (up to conjugacy) the actions of compact abelian groups on hyperfinite real factor of type II_∞ in terms of cocycle-conjugacy of dual actions.

Key words and phrases: real von Neumann algebra, action, dual action, stable conjugacy, cocycle-conjugacy.

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