International Journal of Theoretical Physics 2017, pages 1-12

Quantum Spectral Symmetries

Hamhalter J., Turilova E.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© 2017 Springer Science+Business Media New YorkQuantum symmetries of spectral lattices are studied. Basic properties of spectral order on AW∗-algebras are summarized. Connection between projection and spectral automorphisms is clarified by showing that, under mild conditions, any spectral automorphism is a composition of function calculus and Jordan ∗-automorphism. Complete description of quantum spectral symmetries on Type I and Type II AW∗-factors are completely described.

http://dx.doi.org/10.1007/s10773-017-3312-z

Keywords

AW -algebras ∗, Preserves, Spectral order