

Orthoset spectra of C^* -algebras

David Kruml

Masaryk University

Abstract

Orthoset spectrum of a C^* -algebra is a lattice of q -open sets (isomorphic to closed right ideals) with the orthogonality relation on its maximal elements. The spectrum could be a promising invariant of the C^* -algebra. For now, we can reconstruct the C^* -algebra from its orthoset spectrum unless it has a non-trivial 2-homogeneous quotient. However, in such a case it seems that the spectrum still carries the needed information.