

The classification problem for separable operator systems

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I will present an overview on the complexity of classifying separable operator systems up to complete order isomorphism. While it is hopeless to classify arbitrary separable operator systems, finitely generated operator systems admit a satisfactory smooth classification. For example operator systems generated by a single unitary operator are classified by the spectrum of such operator up to a rigid motion of the circle. This is joint work with Martin Argerami, Samuel Coskey, Matthew Kennedy, Mehrdad Kalantar, and Marcin Sabok.