

Non-commutative Gelfand-Neumark Duality

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We outline a new attempt to obtain a non-commutative generalization of the well-known Gelfand-Neumark duality (between compact Hausdorff topological spaces and commutative unital C^* -algebras), where “geometric spectra” for unital non-commutative C^* -algebras can be described via “non-commutative spaceoids”: suitable bundles of one-dimensional full C^* -categories, equipped with a transition amplitude structure, satisfying certain saturation and uniformity conditions.

This work is a joint collaboration with Natee Pitiwan (Chulalongkorn University) and Roberto Conti (Sapienza Universita' di Roma).