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Applications of L^p-Spaces as Partial*-Algebras

This article is a study of L^p-spaces defined and characterized as partial*-algebras. Precisely, this class of function spaces is studied here as Quasi*-algebras with a specific focus on CQ*-algebras, the commutative and non-commutative CQ*-algebras. Very important properties of these Quasi*-algebras are outlined and characterized, in some cases,as results. In conclusion, applications have been made, anchored on the rich properties, both in quantum field theory and statistical mechanics.