

QUADRATIC SUBPRODUCT SYSTEMS AND THEIR ALGEBRAS

FRANCESCA ARICI

Quadratic algebras provide a natural framework for studying quantum spaces and deformations arising from the theory of quantum groups, as pioneered in Manin's programme for noncommutative geometry. These algebras can be studied using the tools of noncommutative geometry and operator algebras, by realizing them in terms of a suitable subproduct systems of Hilbert spaces. I shall discuss recent results concerning the extension of various operations on quadratic algebras to their C^* -counterparts, focusing on free products and Veronese powers.