

Weighted shift directed graph operator algebras

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We will review joint work with David Kribs and Stephen Power, introducing weighted versions of the free semigroupoid algebra of a directed graph G . These operator algebras act on Fock-type Hilbert spaces corresponding to the set of paths in G , and their canonical generators arise in a natural way from weighted shifts of this path space. We compute the commutant of these algebras and explore the question of when such an algebra coincides with its double commutant.