

Weighted shift directed graph operator algebras

We introduce 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.

This is joint work with David Kribs and Stephen Power.