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Rachael M. Norton* (rnorton9@fitchburgstate.edu). *A Nevanlinna-Pick theorem in the context of the weighted Hardy algebra over a W^* -correspondence.*

Since the original proof of the Nevanlinna-Pick theorem in 1915, many noncommutative generalizations have arisen and two proof strategies have emerged: via a commutant lifting theorem or via a displacement equation. In this talk, we present a generalized Nevanlinna-Pick theorem in the setting of the weighted Hardy algebra over a W^* -correspondence, which generalizes a theorem proved by the author in 2017. The proof relies on a displacement equation and avoids commutant lifting. Time permitting, we compare our result with a similar theorem proved by Jennifer Good in 2017 using her weighted commutant lifting theorem. (Received September 15, 2019)