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Commutant Lifting for Commuting Row Contractions

Arveson and Muller–Vasilescu showed that every commuting n-tuple $T_1, \ldots, T_n$ which is a row contraction has a canonical minimal dilation to an n-tuple of the form $M_i^{(s)} \oplus U_i$, $1 \le i \le n$, where M_i are the multipliers on symmetric Fock space by the n coordinates functions on the complex n-ball, and U_i are commuting normal operators with spectrum in the unit sphere. We show that if X is a contraction commuting with each T_i, then it dilates to a contraction commuting with this dilation.

This is joint work with Trieu Le.