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*Conjugacy properties of pure  $E_0$ -semigroups*

An  $E_0$ -semigroup  $\rho = \{\rho_t\}_{t \geq 0}$  acting on  $\mathfrak{B}(H)$  is said to be pure if its tail algebra  $\bigcap_{t > 0} \rho_t(\mathfrak{B}(H))$  reduces to scalars. Our purpose in this talk is to present various results regarding the classification of pure  $E_0$ -semigroups up to conjugacy.