1067-46-560 **Christopher Jankowski\*** (cjankows@math.bgu.ac.il), Ben-Gurion University of the Negev, P.O. Box 653, 84105 Be'er Sheva, Israel. A family of non-cocycle conjugate E<sub>0</sub>-semigroups obtained from boundary weight doubles.

An  $E_0$ -semigroup  $\alpha = \{\alpha_t\}_{t\geq 0}$  is a semigroup of unital \*-endomorphisms of B(H) which is weakly continuous in t. Previous work has shown how to induce  $E_0$ -semigroups of type II<sub>0</sub> using boundary weight doubles  $(\phi, \nu)$ , where  $\phi : M_n(\mathbb{C}) \to M_n(\mathbb{C})$ is a unital q-positive map and  $\nu$  is a type II Powers weight. We present cocycle conjugacy results for  $E_0$ -semigroups induced by  $(\phi, \nu)$  and  $(\psi, \eta)$  in the case that  $\phi : M_n(\mathbb{C}) \to M_n(\mathbb{C})$  and  $\psi : M_{n'}(\mathbb{C}) \to M_{n'}(\mathbb{C})$  both have rank one. In particular, we find that if  $\nu$  is a type II Powers weight of the form  $\nu(\sqrt{I - \Lambda(1)}A\sqrt{I - \Lambda(1)}) = (f, Af)$ , then  $(\phi, \nu)$  and  $(\psi, \nu)$  induce cocycle conjugate  $E_0$ -semigroups if and only if n = n' and  $\phi$  is conjugate to  $\psi$ . (Received September 09, 2010)