

1019-46-33

**Robert T. Powers** and **Geoffrey L. Price\*** ([g1p@usna.edu](mailto:g1p@usna.edu)), Department of Mathematics 9E,  
United States Naval Academy, Annapolis, MD 21402.  *$E_0$ -semigroups induced from  $CP$ -flows.*

In a series of papers Robert Powers has developed a theory of  $CP$ -flows and their dilations to  $E_0$ -semigroups. Out of this work has emerged a wealth of examples of  $E_0$ -semigroups of type  $II$  as well as a computable criterion for distinguishing cocycle classes of  $E_0$ -semigroups arising in this way. We discuss joint work with Powers in which we apply this theory to resolve a conjecture of his on the cocycle conjugacy classes of  $E_0$ -semigroups of type  $II_0$ . (Received July 26, 2006)