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Janine Wittwer*, 1840 S 1300 E, Salt Lake City, UT 84105, and **S. Petermichl**. *The Heating of the Beurling operator.*

The goal of this paper is to present a set of conditions on the weights w and v so that the Beurling Operator from $L^2(w^{-1}) \rightarrow L^2(v)$ is bounded. The Beurling operator is a two dimensional analogue of the Hilbert Transform and plays an important role in the study of differential equations. (Received September 19, 2005)