

1039-47-43

Donald E Sarason* (sarason@math.berkeley.edu), Department of Mathematics, University of California, Berkeley, CA 94720-3840. *Unbounded operators commuting with restricted backward shifts*. Preliminary report.

THEOREM. A closed densely defined operator on a proper invariant subspace of the backward shift that commutes with the restricted backward shift is a coanalytic Toeplitz operator whose symbol is the complex conjugate of a function in the Nevanlinna class.

The theorem, and the analysis going into its proof, extends, and in a sense completes, earlier work of Daniel Suarez. (Received February 26, 2008)