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Warren Wogen* (wrw@email.unc.edu), Department of Mathematics, University of North Carolina, Chapel Hill, NC 27599-3250. *Complex Symmetric Operators*. Preliminary report.

A conjugation C on a Hilbert space H is an antilinear isometric involution. Fix such a C and consider the collection S of all operators T in $B(H)$ with the property that $CTC = T^*$. T is called a complex symmetric operator. S is a subspace of $B(H)$, and while S is not a subalgebra of $B(H)$, S does contain lots of subalgebras. We will describe some operator algebra that can be done within S . (Received February 29, 2008)