1057-32-110   **Zeljko Cuckovic*** (`zcuckovi@math.utoledo.edu`), Department of Mathematics, 2801 W. Bancroft Street, Toledo, OH 43606, and **Sonmez Sahutoglu** (`Sonmez.Sahutoglu@utoledo.edu`), Department of Mathematics, 2801 W. Bancroft Street, Toledo, OH 43606. *Compactness of Hankel operators on pseudoconvex domains.*

Using the dbar-Neumann problem, we study compactness of Hankel operators whose symbols are smooth up to the boundary of a pseudoconvex domain. We show that the compactness depends on the behavior of the symbol on the analytic structure in the boundary of the domain. We also study compactness of a product of the adjoint of a Hankel operator with another Hankel operator. This is joint work with Sonmez Sahutoglu. (Received January 14, 2010)