1035-26-105   **Michael I. Ganzburg*** (`michael.ganzburg@hamptonu.edu`), Department of Mathematics, Hampton University, Hampton, VA 23668. *A New Approach to Totally Positive Functions and Sequences.*

In this talk, we strengthen a classical Schoenberg's result on the characterization of totally positive (TP) functions on the real axis by using weaker definitions of TP functions. In addition, we generalize the classical Schoenberg-Erdei theorem, which characterizes two-sided TP sequences. (Received July 24, 2007)