

Meeting: 1003, Atlanta, Georgia, AMS CP 1, AMS Contributed Paper Session

1003-47-282 **Michael M. Neumann*** (neumann@math.msstate.edu), Dept. of Mathematics and Statistics,
Mississippi State University, Mississippi State, MS 39762. *Generalized Cesaro operators on Hardy
and Bergman spaces.*

The classical Cesaro operator is the operator that assigns to each square-summable sequence of complex numbers the corresponding sequence of Cesaro means. This operator allows a natural representation as an averaging operator on the classical Hardy space and has been extensively studied in function-theoretic operator theory. This talk centers around the spectral picture and the spectral decomposition properties of a class of operators which may be viewed as natural generalizations of the Cesaro operator. Particular emphasis will be on the finer parts of the spectrum and on the questions of subnormality, hyponormality, and subdecomposability. (Received September 07, 2004)