

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

1003-40-1229 **Jerry P. King*** (jpk2@lehigh.edu), Mathematics Department, Lehigh University, 14 E. Packer Ave., Bethlehem, PA 18015. *Summability methods and Burmann-series expansions.*

A Burmann series is an expansion of one analytic function in terms of another. Here, Burmann series are used to generate matrix methods of summability. Several of the classical methods of summability such as Euler, Borel, and Taylor are included as special cases. Conditions for regularity and for summability of Taylor series are examined. Examples are presented. (Received October 04, 2004)