Meeting: 1001, Evanston, Illinois, SS 22A, Special Session on Special Functions, Orthogonal Polynomials, and their Applications

1001-33-30 **George Gasper*** (`george@math.northwestern.edu`), Northwestern University, Department of Mathematics, 2033 Sheridan Road, Evanston, IL 60208-2730. *Summation, transformation, and expansion formulas for elliptic, modular, and theta hypergeometric series.* Preliminary report.

One of the fastest growing fields of research is the theory of elliptic, modular, and theta hypergeometric series. A brief survey of this field will be presented with an emphasis on recently derived summation, transformation, and expansion formulas for these series. (Received July 05, 2004)