1041-33-95   **Roger W Barnard*** (`roger.w.barnard@ttu.edu`), Dept. Math. & Stat., Texas Tech University, Lubbock, TX 79409. *Hypergeometric analogues of the Arithmetic-Geometric Mean.*

In this talk we present sharp inequalities relating hypergeometric analogues of the arithmetic-geometric mean discussed in an earlier paper of the Borweins and the power mean. The main result generalizes the corresponding sharp inequality for a arithmetic-geometric mean established by Vuorinen. (Received August 05, 2008)