

1006-30-230

Roger W. Barnard, Department of Mathematics and Statistics, PO Box 41042, Lubbock, TX 79409-1042, **Casey R Hume*** (chume@math.ttu.edu), Department of Mathematics and Statistics, PO Box 41042, Lubbock, TX 79402-1042, and **G. Brock Williams** (williams@math.ttu.edu), Department of Mathematics and Statistics, PO Box 41042, Lubbock, TX 79409-1042. *On a Problem of Fournier, Ma and Ruscheweyh concerning Extremal Bounded Convex Domains*. Preliminary report.

We will discuss our further progress on a problem posed by R. Fournier, J. Ma, and S. Ruscheweyh on determining the sharp minimum bound for the functional $\frac{|a_4| - 2/(3M)}{|a_2|}$ for convex analytic functions $|f| \leq M$. This has interesting consequences in generalizing M. Chauqui and B. Osgood's results on the Nehari class. (Received February 15, 2005)