1016-33-239 **George Gasper*** (`george@math.northwestern.edu`), Department of Mathematics, 2033 Sheridan Road, Evanston, IL 60208-2730. *Using integrals of squares of real-valued functions to prove that certain entire functions have only real zeros.* Preliminary report.

Analogous to the use to sums of squares of real-valued functions to prove the reality of the zeros of the entire functions considered in G. Gasper [Using sums of squares to prove that certain entire functions have only real zeros, Fourier Analysis: Analytic and Geometric Aspects, W.O. Bray et al., eds., Marcel Dekker Inc., 1994, 171-186, www.math.northwestern.edu/george/preprints/ggUsingSums/index.html], integrals of squares of real-valued functions are used to prove the reality of the zeros of additional families of entire functions. (Received February 13, 2006)