



**Richard ARON** (aron@mcs.kent.edu), Department of Mathematics, Kent State University, Kent, OH 44242, USA, *Algebras of symmetric holomorphic functions*.

ABSTRACT. We study the algebra of uniformly continuous holomorphic symmetric functions on the ball of  $\ell_p$ , investigating in particular the spectrum of such algebras. To do so, we examine the algebra of symmetric polynomials on  $\ell_p$ -spaces as well as finitely generated symmetric algebras of holomorphic functions. As was pointed out by T. Tonev, even when  $\ell_p$  is replaced by  $C^2$  with the  $\ell_p$ -norm, interesting and apparently difficult questions are encountered.

This is a joint work with R. L. Alencar, P. Galindo, and A. Zagorodnyuk.