

1096-47-1295

Kenneth R. Davidson* (krdavids@uwaterloo.ca), Pure Mathematics Dept., University of Waterloo, Waterloo, ON N2L 3G1, Canada, and **Michael Hartz** and **Orr M. Shalit**. *Multipliers of embedded discs*.

We consider a number of examples of multiplier algebras on Hilbert spaces associated to discs embedded into a complex ball in order to examine the isomorphism problem for multiplier algebras on complete Nevanlinna-Pick reproducing kernel Hilbert spaces. In particular, we exhibit uncountably many discs in the infinite dimensional ball which are multiplier biholomorphic but have non-isomorphic multiplier algebras. In finite balls, we provide a counterpoint to a result of Alpay, Putinar and Vinnikov by providing a proper rational biholomorphism of the disc onto a variety in the 2-ball such that the multiplier algebra is not all bounded analytic functions. (Received September 14, 2013)