

1154-47-156

**Rene Ardila\***, ardilar@gvsu.edu. *Automorphism groups of unit balls of intertwiners*. Preliminary report.

Let  $E$  be a  $W^*$ -correspondence and let  $H^\infty(E)$  be the associated Hardy algebra. The elements of  $H^\infty(E)$  can be realized in terms of  $B(H)$ -valued functions on the open unit ball  $\mathbb{D}((E^\sigma)^*)$ . We show a number of results related to the automorphism groups of both  $H^\infty(E)$  and  $\mathbb{D}((E^\sigma)^*)$ . We find a matrix representation for these groups and describe several features of their algebraic structure. (Received August 16, 2019)