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**Javad Mashreghi\*** ([javad.mashreghi@mat.ulaval.ca](mailto:javad.mashreghi@mat.ulaval.ca)), 1070 Pav. Vachon, Quebec, QC G1V 0A6, Canada. *A group structure on  $\mathbb{D}$  and its application on model spaces.*

We present a group structure on  $\mathbb{D}$  via the automorphisms which fix the point 1. Then, through the induced group action, each point of  $\mathbb{D}$  produces an equivalence class which turns out to be a Blaschke sequence. Moreover, the corresponding Blaschke products are minimal solutions of the functional equation  $\psi \circ \varphi = \lambda\psi$ , where  $\lambda$  is a unimodular constant and  $\varphi$  is an automorphism of the unit disc which fixes the point 1. We also characterize all Blaschke products which satisfy this equation and study its application in the theory of composition operators on model spaces  $K_\Theta$ . (Received January 10, 2014)