

1154-47-535

Robert T.W. Martin* (robert.martin@umanitoba.ca) and **Eli Shamovich** (shamovic@post.bgu.ac.il). *Blaschke-Singular-Outer factorization of non-commutative functions*. Preliminary report.

Any uniformly bounded analytic function in the open unit disk in the complex plane has a Blaschke-Singular-Outer factorization, where the Blaschke factor contains all information about where (and to what degree) the function vanishes, and the singular and outer factors are pointwise invertible. We investigate analogues of this factorization for uniformly bounded non-commutative holomorphic functions in a non-commutative disk or row-ball in several matrix-variables. (Received September 06, 2019)