

WHICH MAPS PRESERVE UNIVERSAL FUNCTIONS?

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We examine whether there exist maps, between spaces of holomorphic functions, which preserve certain notions of universality. For instance, we show that if f is a universal Taylor series in the unit disk in the sense of Luh and Chui and Parnes and p is a polynomial having all its roots on the closed unit disk then the function pf is also a universal Taylor series in the unit disk. We prove similar results for the class of universal functions with respect to derivatives and several open problems will be discussed.

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