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Universal Faber Series with Hadamard-Ostrowski Gaps

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Abstract. For certain non-simply connected domains of even infinite connectivity, we prove that there exist holomorphic functions such that a) their Faber expansions with respect to suitable compact sets Γ have approximating properties outside their domain of holomorphy, and b) the coefficients of the Faber expansions have the property of Hadamard-Ostrowski gaps.

Keywords. Universal functions, universal Faber series, Faber polynomials, power series, Hadamard-Ostrowski gaps.

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