

PERVASIVE ALGEBRAS OF ANALYTIC FUNCTIONS ON RIEMANN SURFACES

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ABSTRACT

Let U be an open subset on an open Riemann surface with $\text{clos } U$ compact. We give necessary and sufficient conditions for U such that the algebra $A(U)$ is complex pervasive on $\text{bdy } U$. Complex pervasive means that the uniform closure on each proper closed subset E of $\text{bdy } U$ is the space of all complex-valued continuous functions on E .