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*Banach-valued Holomorphic Functions on the Maximal Ideal space of  $H^\infty$  and the Operator Corona Problem*

I survey some recent results on Banach-valued holomorphic functions defined on the maximal ideal space of the Banach algebra of bounded holomorphic functions on the unit disk with pointwise multiplication and supremum norm. This theory has much in common with the classical theory of holomorphic functions on Stein manifolds.