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Paul S Muhly and **Baruch Solel*** (mabaruch@tx.technion.ac.il), Department of Mathematics, Technion, 32000 Haifa, Israel. *Non commutative Hardy operator algebras.*

In this talk we will describe the study of certain non-self-adjoint operator algebras, the (non commutative) Hardy algebras, and their representation theory. We view these algebras as algebras of (operator valued) functions on their spaces of representations. We will show that these spaces of representations can be parameterized as unit balls of certain bimodules and the functions can be viewed as Schur class operator functions on these balls. In fact, every element of the Hardy algebra gives rise to a family of functions, each defined on a different ball. we will discuss the properties of such families. (Received September 14, 2011)