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Clifford A Bearden*, cabearde@math.uh.edu. *Hilbert C^* -modules over Σ^* -algebras.*

A Σ^* -algebra is a concrete C^* -algebra that is sequentially closed in the weak operator topology. We study an appropriate class of C^* -modules over Σ^* -algebras analogous to the class of W^* -modules (selfdual C^* -modules over W^* -algebras), and we are able to obtain Σ^* -versions of virtually all the results in the basic theory of C^* - and W^* -modules. We also study Σ^* -analogues of Morita equivalence and make connections with operator space theory analogous to David Blecher's results for C^* -modules and W^* -modules. (Received September 09, 2016)