

On (strong) Birkhoff–James orthogonality in Hilbert C^* -modules

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In this talk, we present some results on the Birkhoff–James orthogonality and its strong version in Hilbert C^* -modules. We describe the class of full Hilbert C^* -modules in which the (strong) Birkhoff–James orthogonality is a symmetric relation. We also characterize the class of (surjective) linear mappings $\Phi : \mathbb{B}(H) \rightarrow \mathbb{B}(H)$ that preserve the (strong) Birkhoff–James orthogonality. This research was supported in part by the Croatian Science Foundation under the project IP-2016-06-1046.