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Bhanumati Nayak Dasgupta* (bhanumati@msn.com) and **Soura Dasgupta**. *A hermitian analog of a Morita theorem.*

Bass came up with an important tool, the Morita theorems which Frohlich et al generalized for rings with involution. Bass' Morita I states that the tensor product by a suitable bimodule with connecting maps called a Morita context naturally gives rise to an equivalence between categories of modules over rings (CMR). Morita II states that every equivalence between CMR can be given by such a tensor product. The former has a hermitian analog by Hahn for rings with antistructure, in particular rings with involutions. Hermitian analogs of Morita II exist but have conditions hard to verify. This paper has a relatively simple analog and shows that every equivalence \mathcal{F}_1 between categories of modules with hermitian forms over rings with antistructure arises by tensoring the module and form with a suitable bimodule and a form resp. from a hermitian Morita context if \mathcal{F}_1 agrees with an equivalence \mathcal{F} between the underlying CMR on the underlying modules and morphisms and if \mathcal{F}_1 preserves non-singularity. This theorem is important because all equivalences under these conditions then give rise to isomorphic Witt groups of the underlying rings, and induce generalized Brauer groups and Azumaya algebras with antistructure. (Received March 15, 2017)