

SUPER INNER PRODUCT SPACES

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Here in this seminar project we recall the definition and properties of super inner product spaces and their properties. Super inner products on super linear algebra was defined and developed in 2008 by W B Vasantha and Florentin Smarandache. Using the notion of super inner product on super linear algebras we can analogously define the notion of super norm. The notion of super orthogonal vectors, super orthogonal super set, super orthonormal vectors and super orthonormal sets are developed.

In this project proof Cauchy Schwarz inequality in case of super vectors is derived. We also prove super orthonormal set of non zero super vectors are linearly super independent.