

APPLICATION OF n - DIMENSION LINEAR ALGEBRA TYPE-I

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In this seminar project we discuss about the n -vector spaces of type I and the n -inner product defined on them. The new concept of n -vector spaces of type I was introduced in 2008 by W b Vasantha and Florentin Smarandache. To define n -vector spaces of type I we need the notion of n -groups under the operation of addition. We give examples of n -vector spaces of type I and recall the definition of n -inner product on these n -vector spaces of type I. Thus using the notion of n -inner product we recall the definition of n -orthogonal set in a n -inner product space of type I. properties like n -adjoint and n -unitary operators are defined and illustrated by examples.

The characterization theorems related to n -linear operators to be n -unitary operators is obtained in this project.