

THEOREMS ON N-LINEAR OPERATOR ON N-VECTOR SPACES OF TYPE-II

Vinay Kumar
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In this seminar project we recall the definition of n-linear type of II. Linear algebras of type II was first defined and developed in 2008 by W B Vasantha and Florentin Smarandache. Unlike type I linear algebras which are built using fields type II algebras are built using n- fields of zero characteristic or finite characteristic or mixed characteristic .

The primary n- decomposition theorem is proved .this notion is also described by an example. In case of n-linear algebra of type II all properties of usual linear algebra can be derived without any difficulty as they are defined over n-fields. Only in case of n-linear algebra of type II we can develop the notion of n- linear functionals; for in case of n-linear algebra of type I it is impossible to define linear functionals hence more so the notion of n-dual spaces.