# ON $F_a(K,(K-2))$-STRUCTURE MANIFOLD

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## Abstract

Yano, Houh and Chen [1] have studied the structure defined by the tenosor field $\phi$ of type (1,1) satisfying $\phi^4 \pm \phi^2 = 0$. Gadea and Cordero [2] have obtained the integrability conditions of these structures. The purpose of this paper is to define and study $F_a(K,(k-2))$-structure. Integrability conditions of such a structure have also been studied.

**Keywords:** Riemannian Manifold, projection operator, invariant submanifold, integrability conditions

**AMS Classification:** 53C05, 53C15

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