



## Scalars Fields in the Nonsymmetric Kaluza-Klein (Jordan-Thiry) Theory

By Kalinowski, Marek

Condition: New. Publisher/Verlag: Scholar's Press | In this book we construct the Nonsymmetric Jordan-Thiry Theory unifying N.G.T., the Yang-Mills's field, the Higgs's fields and scalar forces in a geometric manner. In this way we get masses from higher dimensions. We discuss spontaneous symmetry breaking, the Higgs's mechanism and a mass generation in the theory. The scalar field (as in the classical Jordan-Thiry Theory) is connected to the effective gravitational constant. This field is massive and has Yukawa-type behaviour. We discuss the relation between  $R^+$  invariance and  $U(1)F$  from G.U.T. within Einstein -transformation, and fermion number conservation. In this way we connect  $W_{mi}$ -field from N.G.T. with a gauge field  $AF$  from G.U.T. We derive the equation of motion for a test particle from conservation laws in the hydrodynamic limit. We consider a truncation procedure for a tower of massive  $k$  (or  $k$ ) scalar fields using Friedrichs's theory and an approximation procedure for the lagrangian involving Higgs's field. The geodetic equations on the Jordan-Thiry manifold are considered with an emphasis to terms involving Higgs's field. | Format: Paperback | Language/Sprache: english | 420 pp.



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