1. Record Nr. UNINA9910257443503321

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| Titolo | Dimensional Reduction of Gauge Theories, Spontaneous Compactification and Model Building [[electronic resource] /] / by Yura A. Kubyshin, Jose M. Mourao, Gerd Rudolph, Igor P. Volobujev |
| Pubbl/distr/stampa | Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1989 |
| ISBN | 3-540-46860-9 |
| Edizione | [1st ed. 1989.] |
| Descrizione fisica | 1 online resource (X, 80 p.) |
| Collana | Lecture Notes in Physics, , 0075-8450 ; ; 349 |
| Disciplina | 530.1/435 |
| Soggetti | Quantum physics<br>Quantum computers<br>Spintronics<br>Elementary particles (Physics)<br>Quantum field theory<br>Gravitation<br>Quantum Physics<br>Quantum Information Technology, Spintronics<br>Elementary Particles, Quantum Field Theory<br>Classical and Quantum Gravitation, Relativity Theory |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Bibliographic Level Mode of Issuance: Monograph |
| Nota di contenuto | Dimensional reduction of pure Yang-mills theories -- Dimensional reduction of gravity and spontaneous compactification -- Dimensional reduction of matter fields and model building. |
| Sommario/riassunto | This monograph presents in detail the reduction method for studying the unification of fundamental actions. The mathematical (differential geometrical) methods make extensive use of Lie Groups and the concept of homogeneous spaces. The main topic of the book is the dimensional reduction of pure Yang-Mills theories. A rather complete analysis of the structure of the scalar field potential is given and a general procedure for solving the equations of spontaneous compactification within Einstein-Yang-Mills systems is presented. The |

authors also discuss gravity and theories with fermions included and they review attempts to construct realistic models. The book presents the basic ideas and the calculations in detail and should be of interest to researchers and graduate students in mathematical physics.