

1. Record Nr.	UNINA9910822668603321
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Titolo	The physics of the standard model and beyond // T. Morii, C.S. Lim, S. N. Mukherjee
Pubbl/distr/stampa	Singapore ; ; River Edge, N.J., : World Scientific, 2004
ISBN	1-281-93595-6 9786611935955 981-279-560-X
Edizione	[1st ed.]
Descrizione fisica	1 online resource (314 p.)
Altri autori (Persone)	LimC. S MukherjeeS. N
Disciplina	539.72
Soggetti	Standard model (Nuclear physics) Nuclear structure Electroweak interactions Neutrinos - Mass Supersymmetry Particles (Nuclear physics) - Flavor
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. 291-294) and index.
Nota di contenuto	CONTENTS ; Preface ; Chapter 1 INTRODUCTION ; 1.1 Elementary Particles in the Standard Model ; 1.2 Interactions Among Fundamental Particles ; Chapter 2 WEAK INTERACTION ; 2.1 The Fermi Theory of Weak Interaction ; 2.1.1 Parity Violation in Weak Interaction 2.1.2 Road to Current-Current V - A Interaction 2.1.2.1 Helicity and chirality ; 2.1.2.2 Observation of electron helicity in the B-decay ; 2.1.2.3 Determination of neutrino helicity ; 2.1.2.4 Angular correlation between e+ and v ; 2.1.2.5 V - A interaction 2.1.3 Lepton Current Universality 2.1.4 Pion Decays ; 2.1.5 Cabibbo Currents ; 2.1.6 Difficulties in the Fermi Theory ;

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Sommario/riassunto

This book provides a unified description of elementary particle interactions and the underlying theories, namely the Standard Model and beyond. The authors have aimed at a concise presentation but have taken care that all the basic concepts are clearly described. Written primarily for graduate students in theoretical and experimental particle physics, *The Physics of the Standard Model and Beyond* conveys the excitement of particle physics, centering upon experimental observations (new and old) and a variety of ideas for their interpretation.

Contents:

- Weak Interaction
