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| 1. Record Nr. | UNINA9910462132203321 |
| Autore | Barger V (Vernon), <1938-> |
| Titolo | The physics of neutrinos [[electronic resource] /] / Vernon Barger, Danny Marfatia, Kerry Whisnant |
| Pubbl/distr/stampa | Princeton, : Princeton University Press, c2012 |
| ISBN | 1-283-54007-X 9786613852526 1-4008-4559-9 |
| Edizione | [Course Book] |
| Descrizione fisica | 1 online resource (239 p.) |
| Classificazione | UO 6340 |
| Altri autori (Persone) | MarfatiaDanny <1972-> WhisnantKerry Lewis |
| Disciplina | 539.7/215 |
| Soggetti | Neutrinos Electronic books. |
| 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 and index. |
| Nota di contenuto | Front matter -- Contents -- Preface -- 1. Introduction -- 2. Neutrino Basics -- 3. Neutrino Mixing and Oscillations -- 4. Solar Neutrinos -- 5. Atmospheric Neutrinos -- 6. Global Three-neutrino Fits -- 7. Absolute Neutrino Mass -- 8. Long-baseline Neutrino Oscillations -- 9. Model Building -- 10. Supernova Neutrinos -- 11. High-energy Astrophysical Neutrinos -- 12. Beyond Three Neutrinos -- 13. Summary and Outlook -- References -- Index |
| Sommario/riassunto | The physics of neutrinos--uncharged elementary particles that are key to helping us better understand the nature of our universe--is one of the most exciting frontiers of modern science. This book provides a comprehensive overview of neutrino physics today and explores promising new avenues of inquiry that could lead to future breakthroughs. The Physics of Neutrinos begins with a concise history of the field and a tutorial on the fundamental properties of neutrinos, and goes on to discuss how the three neutrino types interchange identities as they propagate from their sources to detectors. The book shows how studies of neutrinos produced by such phenomena as cosmic rays in the atmosphere and nuclear reactions in the solar interior provide striking evidence that neutrinos have mass, and it |

traces our astounding progress in deciphering the baffling experimental findings involving neutrinos. The discovery of neutrino mass offers the first indication of a new kind of physics that goes beyond the Standard Model of elementary particles, and this book considers the unanticipated patterns in the masses and mixings of neutrinos in the framework of proposed new theoretical models. The Physics of Neutrinos maps out the ambitious future facilities and experiments that will advance our knowledge of neutrinos, and explains why the way forward in solving the outstanding questions in neutrino science will require the collective efforts of particle physics, nuclear physics, astrophysics, and cosmology.

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| 2. Record Nr. | UNINA9910895885803321 |
| Titolo | Ethical human sciences and services : an international journal of critical inquiry |
| Pubbl/distr/stampa | New York, NY : , : Springer Pub. Co., , ©1999-©2003 |
| ISSN | 2376-9475 |
| Descrizione fisica | 5 volumes : illustrations ; ; 26 cm |
| Disciplina | 150 |
| Soggetti | Psychologists - Professional ethics Human services personnel - Professional ethics Psychiatric ethics Ethics, Professional Mental Health Services Psychology, Social Social Responsibility Periodical Periodicals. |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Periodico |
| Note generali | Refereed/Peer-reviewed |

