

Hadrons and leptons

HADRONS are particles that interact through the **strong interaction**

examples: protons, neutrons, pions and kaons

LEPTONS are particles that do not interact through the strong interaction

examples: electrons, positrons, muons and neutrinos

Leptons interact through the **weak interaction**.

All charged particles interact through the electromagnetic interaction

Probing Hadrons With Leptons

Ian Pickup



Probing Hadrons With Leptons:

Probing Hadrons with Leptons G. Preparata, 2013-03-09 Physicists actively engaged in advanced research should be encouraged to discuss results and deepen their theoretical understanding of the data. It is practically impossible nowadays to achieve the goal of the old times when small groups of scientists had the privilege of debating their ideas and the details of their experiments in an informal and friendly way. Conferences are now too wide in scientific coverage and in consequence there are often too many participants. The Highly Specialized Seminars of the Ettore Majorana Centre for Scientific Culture are intended to provide such a forum for scientists of outstanding reputation in their fields to exchange information. This volume deals with one of the most interesting topics in subnuclear physics and Professor Giuliano Preparata is one of the world's leaders in the field. This volume contains the most recent results on the study of deep inelastic phenomena using neutrinos, muons and electrons against nucleons and $e e$ interactions. It represents our best knowledge of the field as given by some of the most distinguished world experts in the theoretical and experimental domain. Antonino Zichichi, Director, Ettore Majorana Centre for Scientific Culture. v PREFACE. In March 1979 about 50 physicists gathered in Erice to participate in the Fourth Highly Specialized Seminar on Probing Hadrons with Leptons. Probing Hadrons with Leptons, 1980. **Probing Hadrons with Leptons** G. Preparata, 1980-10-01. *Experimentelle Technik der Physik*, 1982. **Proceedings of the 4th Seminar on Probing Hadrons with Leptons. Erice, Sicily. March, 1979** Giuliano Preparata, Jean-Jacques Aubert, 1980.

Electromagnetic Probes and the Structure of Hadrons and Nuclei Amand Faessler, 2000. Proceedings of Neutrino 79 A. Haatuft, Cecilia Jarlskog, 1979. *Hadronic Probes and Nuclear Interactions* Comfort, William R. Gibbs, Barry G. Ritchie, 1985. **Weak Interactions as Probes of Unification (Virginia Polytechnic Institute--1980)** George Briggs Collins, Lay Nam Chang, John Robert Ficenec, 1981. *Heavy Flavour Physics: a Probe of Nature's Grand Design* Società italiana di fisica, 1998. The lectures collected in this book present a comprehensive review of the current knowledge of heavy quark physics from the points of view of both theory and experiment. Heavy Flavour Physics has accomplished enormous progress during the last few years: the last heavy quark has been discovered and the quality of the collected data on the other relatively lighter quarks has dramatically improved. On the theory side, noticeable progress has been reported on new calculations of decay rates based on various techniques such as QCD sum rules, heavy quark mass expansion and lattice QCD. The theory of heavy quark production is constantly improving and awaiting new results. Nevertheless, there are strong reasons to believe that the Standard Model of High Energy Physics is incomplete. It exhibits very peculiar patterns for which it offers no explanation. The basic constituents of matter are arranged into three seemingly identical generations or families of quarks and leptons, differing merely in their masses. The pattern in the fermion masses, why they are families and why there are three of them, is not yet understood. Furthermore, it is known that at least within the standard model there is an intimate connection between the replication of families and the gateway of CP violation; in addition, the latter phenomenon is a crucial

ingredient in explaining why our universe is made up almost exclusively of matter rather than being more or less matter
 antimatter symmetric How and to what extent can Heavy Flavour Physics impact on these questions Does it offer novel
 windows onto New Physics beyond the Standard Model in general and onto new symmetries such as Supersymmetry in
 particular These questions constitute the central theme of this book The material treated in this publication may serve as
 reference for the segment of the high energy community actively engaged in heavy quark physics A Guide to Data in
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Table of Contents Probing Hadrons With Leptons

1. Understanding the eBook Probing Hadrons With Leptons
 - The Rise of Digital Reading Probing Hadrons With Leptons
 - Advantages of eBooks Over Traditional Books
2. Identifying Probing Hadrons With Leptons
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Probing Hadrons With Leptons
 - User-Friendly Interface
4. Exploring eBook Recommendations from Probing Hadrons With Leptons
 - Personalized Recommendations
 - Probing Hadrons With Leptons User Reviews and Ratings
 - Probing Hadrons With Leptons and Bestseller Lists
5. Accessing Probing Hadrons With Leptons Free and Paid eBooks
 - Probing Hadrons With Leptons Public Domain eBooks
 - Probing Hadrons With Leptons eBook Subscription Services

- Probing Hadrons With Leptons Budget-Friendly Options
- 6. Navigating Probing Hadrons With Leptons eBook Formats
 - ePub, PDF, MOBI, and More
 - Probing Hadrons With Leptons Compatibility with Devices
 - Probing Hadrons With Leptons Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Probing Hadrons With Leptons
 - Highlighting and Note-Taking Probing Hadrons With Leptons
 - Interactive Elements Probing Hadrons With Leptons
- 8. Staying Engaged with Probing Hadrons With Leptons
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Probing Hadrons With Leptons
- 9. Balancing eBooks and Physical Books Probing Hadrons With Leptons
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Probing Hadrons With Leptons
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Probing Hadrons With Leptons
 - Setting Reading Goals Probing Hadrons With Leptons
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Probing Hadrons With Leptons
 - Fact-Checking eBook Content of Probing Hadrons With Leptons
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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