

# Mesons $q\bar{q}$

Mesons are bosonic hadrons

These are a few of the many types of mesons.

Symbol	Name	Quark content	Electric charge	Mass $\text{GeV}/c^2$	Spin
$\pi^+$	pion	$u\bar{d}$	+1	0.140	0
$K^-$	kaon	$s\bar{u}$	-1	0.494	0
$\rho^+$	rho	$u\bar{d}$	+1	0.776	1
$B^0$	B-zero	$d\bar{b}$	0	5.279	0
$\eta_c$	eta-c	$c\bar{c}$	0	2.980	0

# Meson Physics

**Judah M. Eisenberg, Daniel S. Koltun**



## **Meson Physics:**

*Meson Physics* Robert Eugene Marshak, 1952      *The Origin of the Concept of Nuclear Forces* L.M Brown, H Rechenberg, 1996-01-01 The concept of fundamental nuclear forces emerged gradually during the start of the 1930s and reached our present level of description some time before the 1950s The Origin of the Concept of Nuclear Forces presents a unified comprehensive account of the history of this important part of the modern scientific worldview In addition the authors foremost experts in the field examine the sociological and philosophical aspects of the story in light of the various theories of scientific development The book contains analyses of published work archival materials and original interviews It will be appealing primarily to historians of science and physicists interested in the roots of their field      Meson Physics at COSY-11 and WASA-at-COSY Andrzej Kupsc, 2007-11-19 This enchanting volume comprises the results of recent investigations aimed at understanding the mechanism leading to the creation and decay of strongly interacting particles The emphasis here is on studies of the production decay interaction and structure of mesons eta eta prime and kaons The investigations were carried out at the cooler synchrotron COSY providing beams of protons and deuterons that help create the full spectrum of basic pseudo scalar and vector mesons      Scientific and Technical Aerospace Reports , 1969      *Currents and Mesons* J. J. Sakurai, 1969-01-15 Current and Mesons is the most recent publication in the Chicago Lectures in Physics series The book presents Professor Sakurai s introduction to a new field of elementary particle physics which has become increasingly important in the past few years It is based on a course given to his advanced graduate students in theoretical high energy physics at the University of Chicago The author begins with a brief review of SU 3 The major topics then treated are the divergence condition and current commutation relations vector meson universality PCAC and the Goldberger Treiman relation soft pion processes and asymptotic symmetries and spectral function sum rules The book concludes with a discussion of notation and of normalization convention Professor Sakurai s work deals with topics on which much of current discussion on the theory of elementary particles is focused The material is designed for the advanced student who is seriously interested in doing original work and as such provides a much needed introduction to the present literature in the field

**Introduction to Meson Theory** Hans Albrecht Bethe, 1954      **Energy Research Abstracts** , 1981-03      *AEC Authorizing Legislation* United States. Congress. Joint Committee on Atomic Energy, 1974      *Proceedings of the 9th International Workshop on Meson Production, Properties and Interaction (MESON 2006)* , 2007      *AEC Authorizing Legislation, Fiscal Year 1974* United States. Congress. Joint Committee on Atomic Energy, 1973      Bulletin of the Atomic Scientists , 1955-03 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world      Meson-nuclear Physics--1979, Houston Ed Vernon Hungerford, 1979

**Bibliographical Series** , 1964      **Meson Physics at COSY-11 and WASA-at-COSY** Symposium on Meson Physics at

COSY-11 and WASA-at-COSY,2007      **Mesons** Alan M. Thorndike,1952      □□□□□□□□□□□□□□□□ □□□□□□  
(Japan),1900      **Meson 2002** Lucjan Jarczyk,2003 This volume deals with both the experimental and theoretical aspects of  
meson physics in particular it presents new results The main topics are hadronic and electromagnetic meson production in  
various reactions meson interaction with mesons nucleons and nuclei the structure of hadrons mesons and fundamental  
symmetries exotic systems The book provides an overview of the current status of these areas as well as of new  
developments besides giving a preview of the forthcoming investigations      **The Johns Hopkins University Circular**  
,1956 Includes University catalogues President s report Financial report registers announcement material etc      **Theory of**  
**Meson Interactions with Nuclei** Judah M. Eisenberg,Daniel S. Koltun,1980      **Windsurfing the Fermi Sea** Thomas Tzu  
Szu Kuo,J. Speth,1987

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