

Dark Pions

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These can be neutral pions (π^0), which decay to gamma rays ... And it could be that gravitational waves can teach us about dark matter," the mysterious stuff that makes up most of the matter ...

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Astronomy enters a new age thanks to multi-messenger signals

While many physicists have predicted the existence of dark matter, a type of matter that ... such as electrons and pions. Telescopes can then search for this radiation by observing our galaxy ...

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Her work has involved improving our understanding of the Standard Model of particle physics, supersymmetry, baryogenesis, cosmological inflation, and dark matter. Randall's research also ...

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As they collide with nuclei in our atmosphere, pions and kaons are produced, and the pions then decay into muons. These muons are similar to electrons, having a +1 or -1 charge, but with 200 ...

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In a lawsuit filed against the Pions last Friday, the owner of the Long Island property claimed the wealthy couple were exploiting New York's Covid-19 moratorium barring eviction and refusing to ...

Distraught wife of wealthy Cantor Fitzgerald exec denies squatting claims

Lawrence Krauss: I have a friend of mine who's a very famous writer, and I'll leave him nameless for the moment, but he writes very dark novels. And when I first met him I was surprised he was so ...

The Universe May Not Have a Purpose – But You Do, Thanks to Science

The T2K experiment is a long baseline neutrino oscillation experiment. A high intensity narrow band neutrino beam is produced by secondary pions created by a 50 GeV proton synchrotron at the Japanese ...

The T2K Group

Now suddenly, it seems, Majorana's concept is ubiquitous, and his equation is central to recent work not only in neutrino physics, supersymmetry and dark matter, but also on some exotic states of ...

Majorana returns

Quantum chromodynamics assumes that hadrons such as protons, neutrons and pions are composed of quarks, which, among other quantum numbers, carry fractional charge and are held together by non ...

Confinement in a quantum magnet

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In a lawsuit filed against the Pions in June, the owner of the Long Island property claimed the wealthy couple were exploiting New York's Covid-19 moratorium barring eviction and refusing to ...

Hamptons squatter 'trashed her rental' and refuses to move out under pandemic-related eviction ban, leaving her Holocaust-survivor landlord without a home

This book is a comprehensive introduction to particle physics, bridging the gap between traditional textbooks on the subject and popular accounts that assume little background knowledge. This fourth ...

The Ideas of Particle Physics

Using only a pen and paper, a theoretical physicist has proved a decades-old claim that a strong force called Quantum Chromo Dynamics (QCD) leads to light-weight pions, reports a new study ...

News tagged with theoretical physicist

Dr. Moritz Meinecke: SUSY-QCD corrections to the (co-)annihilation of neutralino dark matter within the MSSM Now with BASF Coatings GmbH, Münster Dr. Patrick Steppeler: Radiative corrections for the ...

This book presents the proceedings of The International Workshop on Frontiers in High Energy Physics (FHEP 2019), held in Hyderabad, India. It highlights recent, exciting experimental findings from LHC, KEK, LIGO and several other facilities, and discusses new ideas for the unified treatment of cosmology and particle physics and in the light of new observations, which could pave the way for a better understanding of the universe we live in. As such, the book provides a platform to foster collaboration in order to provide insights into this important field of physics.

Various cosmological observations support not only cosmological inflation in the early universe, which is also known as exponential cosmic expansion, but also that the expansion of the late-time universe is accelerating. To explain this phenomenon, the existence of dark energy is proposed. In addition, according to the rotation curve of galaxies, the existence of dark matter, which does not shine, is also suggested. If primordial gravitational waves are detected in the future, the mechanism for realizing inflation can be revealed. Moreover, there exist two main candidates for dark matter. The first is a new particle, the existence of which is predicted in particle physics. The second is an astrophysical object which is not found by electromagnetic waves. Furthermore, there are two representative approaches to account for the accelerated expansion of the current universe. One is to

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assume the unknown dark energy in general relativity. The other is to extend the gravity theory to large scales. Investigation of the origins of inflation, dark matter, and dark energy is one of the most fundamental problems in modern physics and cosmology. The purpose of this book is to explore the physics and cosmology of inflation, dark matter, and dark energy.

This book of proceedings is composed of articles based on the presentations at LISHEP 2018, centering on the main theme of the conference 'Heavy Particles and Flavours', with a focus on recent results and developments from the experiments at the Large Hadron Collider.

Studies the theoretical and experimental aspects of photoproduction of pions on nucleons and nuclei in the range of photon energies up to 1 GeV. Theoretical predictions are presented based on dispersion relationships of multiple pion photoproduction amplitudes. The problem of a complete experiment i

The Journal on Advanced Studies in Theoretical and Experimental Physics, including Related Themes from Mathematics

The Particle Odyssey takes the reader on a spectacular illustrated journey to the heart of matter. In clear, non-technical language the authors describe the key experiments and fundamental discoveries which have led to our current understanding of the matter that makes up the universe and the forces that govern it. - ;During the 20th century, scientists discovered WHAT the Universe is made of; as the 21st century begins, they are preparing experiments to find out HOW it came to be like this. This great adventure, which will involve a metaphorical journey back in time to within a billionth of a second of the Big Bang, is the latest stage in the quest to understand the nature of the matter that makes our Universe and the forces that govern it. The Particle Odyssey takes the reader on a spectacularly illustrated journey to the heart of matter. In clear, non-technical language the authors describe the key experiments and fundamental discoveries which have led to our current understanding of the origins and nature of the material universe. There are individual 'portraits' of all the major subatomic particles, from the electron to the top quark. The authors describe the history of experimental particle physics: its origins in the discovery of X-rays in 1895; the dissection of the atom by Rutherford and others; the unexpected revelations of the cosmic rays; the explosion of new particles in

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the 1950s and 60s; the discovery of quarks and the rise of the 'standard model' in the last part of the 20th century. And they also look at the great challenges that face physicists today - where did antimatter go? what is dark matter? can there be a theory of everything? - and the experiments they are devising to explore them. The Particle Odyssey brings together and presents with style over 100 of the best images of particle 'events' - mysterious, abstract, often beautiful pictures of the tracks of subatomic particles as they speed, curve, dance, or explode through cloud and bubble chambers, stacks of photographic emulsion, and the giant multi-element detectors of modern experiments. Here are spiralling electrons, the tell-tale 'vees' of strange particles, matter and antimatter born from raw energy, energetic jets of particles spraying out from the decay points of quarks and gluons. A further 250 pictures, many taken specially for this book, illustrate the laboratories, experiments, and personalities of over a century of particle physics. -

This unique and atmospheric volume presents the dramatic story of Napoleon's escape from Elba and march on Paris in the words of eyewitnesses and participants. Drawing on hundreds of firsthand accounts by Napoleon's supporters and opponents, Paul Britten Austin recreates the drama of those tumultuous days of the spring of 1815 and throws light on the mixed French response to the unexpected return of their former emperor. 1815: The Return of Napoleon recreates, in the words of those present, Napoleon's dramatic landing at Antibes in the south of France, the first heady days of his arrival after almost a year of exile, his almost miraculous march across France, his arrival in Paris, and the coup which led to the fall of the Bourbons. Paul Britten Austin's technique, so brilliantly presented in his 1812 trilogy on Napoleon's invasion of Russia, brings historical events to life and gives a dramatic insight into the hopes and fears of the French nation in that spring of 1815. The first of two volumes on Napoleon in 1815. This unique and atmospheric volume presents the dramatic story of Napoleon's escape from Elba and march on Paris in the words of eyewitnesses and participants. Drawing on hundreds of firsthand accounts by Napoleon's supporters and opponents, Paul Britten Austin recreates the drama of those tumultuous days of the spring of 1815 and throws light on the mixed French response to the unexpected return of their former emperor. 1815: The Return of Napoleon recreates, in the words of those present, Napoleon's dramatic landing at Antibes in the south of France, the first heady days of his arrival after almost a year of exile, his almost miraculous march across France, his arrival in Paris, and the coup which led to the fall of the Bourbons. Paul Britten Austin's technique, so brilliantly presented in his 1812 trilogy on Napoleon's invasion of Russia, brings historical events to life and gives a dramatic insight into the hopes and fears of the French nation in that spring of 1815. The first of two volumes on Napoleon in 1815.

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Tanyana is among the highest ranking in her far-future society – a skilled pionner, able to use a mixture of ritual and innate talent to manipulate the particles that hold all matter together. But an accident brings her life crashing down around her ears. She is cast down amongst the lowest of the low, little more than a garbage collector. But who did this to her, and for what sinister purpose? Her quest to find out will take her to parts of the city she never knew existed, and open the door to a world she could never have imagined. File Under: Science Fiction [Meets The Eye | Fantastic Journey | Hidden Powers | Life Meaning] e-book ISBN: 9780857661555

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