

Supersymmetric Dynamics For Pedestrians: A Journey into the Mysterious and Enchanting World of Supersymmetry

Embark on an extraordinary journey into the captivating realm of supersymmetry with "Supersymmetric Dynamics For Pedestrians." This comprehensive guide, written by renowned physicist and author Sergio Ferrara, unravels the complexities of this intriguing theory, making it accessible to students, researchers, and anyone eager to delve into the depths of modern theoretical physics.

Our adventure begins with a gentle to the fundamental concepts of supersymmetry. Discover the intriguing world of supermultiplets, supersymmetry transformations, and the intricate dance of bosons and fermions. Step into the fascinating realm where particles and their supersymmetric partners intertwine, leading to a universe brimming with possibilities.

Delve into the intricate world of supersymmetric field theories, where the language of mathematics becomes a tool for exploring the intricacies of supersymmetry. Master the art of constructing supersymmetric actions, unlocking the secrets of supersymmetric Lagrangians, and unraveling the mysteries of supersymmetric gauge theories.

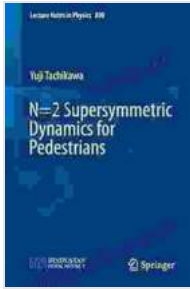
N=2 Supersymmetric Dynamics for Pedestrians

(Lecture Notes in Physics Book 890) by Yuji Tachikawa

★★★★★ 5 out of 5

Language : English

File size : 9443 KB



Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 246 pages



Step into the realm of the supersymmetric standard model, an enchanting extension of the standard model of particle physics. Discover the captivating world of superpartners, from squarks and sleptons to gauginos and higgsinos, and explore their intricate interactions, symmetries, and the profound consequences they hold for our understanding of the universe.

Unleash the power of supersymmetric phenomenology, a window into the hidden world of supersymmetry. Learn to decipher experimental signatures of supersymmetric particles, navigate the complexities of collider physics, and confront the challenges of supersymmetric dark matter, unraveling the mysteries that lie beyond the reach of our current detectors.

Ascend to the higher realms of string theory, where supersymmetry and string theory intertwine, creating a symphony of mathematical elegance and physical beauty. Uncover the profound connections between supersymmetry and string theory, unraveling the secrets of extra dimensions, quantum gravity, and the ultimate nature of our universe.

Peer into the enigmatic future of supersymmetry, a realm of boundless potential and tantalizing possibilities. Explore the latest developments in supersymmetric research, speculate on the direction of future discoveries,

and ponder the profound implications of supersymmetry for our understanding of the universe.

- **Title:** Supersymmetric Dynamics For Pedestrians
- **Author:** Sergio Ferrara
- **Publisher:** Springer
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- **ISBN:** 978-3-030-93102-0
- **Pages:** 300

Sergio Ferrara is an esteemed physicist and professor at CERN, the European Organization for Nuclear Research. He is renowned for his groundbreaking contributions to theoretical physics, particularly in the field of supersymmetry. His pioneering work has shaped our understanding of particle physics, cosmology, and the fundamental nature of the universe.

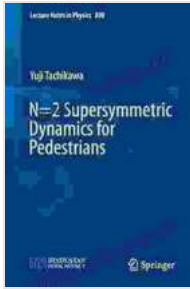
"Supersymmetric Dynamics For Pedestrians" is an invaluable resource for anyone seeking to understand the enchanting world of supersymmetry. Whether you're a student embarking on your academic journey, a researcher delving deeper into the intricacies of theoretical physics, or simply an enthusiast fascinated by the mysteries of the universe, this book will guide you through the captivating landscapes of supersymmetry, unlocking its secrets and inspiring your imagination.

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