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Strings and superstrings; Algebras,
lattices and strings 1986;

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quantum theory of fields and strings;

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The heterotic string theory;
Covariant quantization and the three-
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theories of particles and interactions;
Superstring phenomenology. Some
remarks about string field theory; A
new formulation of string theory.

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Covariant field theory of the
interacting string; Diagonalization
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critical dimensions of nonlinear
sigma models; Field theory of
strings; The n-loop string amplitude;
Strings in background fields; Strings

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and superspace; Orbifolds and
twisted strings; Higher curvature
supergravity and superstrings.

Gravity from strings; Strings from
gravity. The density matrix of the
universe; A new class of topological
terms; Random dynamics; A new

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hypothesis on the nature of quark
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existing self-reproducing
inflationary universe; Superspace
actions and duality transformations
for $N=2$ tensor multiplets;
Consistency of anomalies in SUSY

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gauge theories; Directions in string
theory; The future of string theory;
Superstring theory: closing talk.

The Lake Louise Winter Institute is
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contain pedagogical and review

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lectures by invited experts and
contributed presentations by
participants. Contents: Physics at
TESLA (G A Blair) Searches at
HERA (N Delerue) Particle
Production and Multiplicity in
Heavy Ion Collisions at PHENIX (L

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Ewell) Two Photon Physics at LEP
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(D Haas) Higgs Searches with the
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DELPHI Detector (J
Hansen) Noncommutative Field
Theories and Spontaneous
Symmetry Breaking (K
Kaminsky) Electromagnetic

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Fields (D Leahy)Recent Results
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Resonant Z Pair Production with
DELPHI (J Rehn)Charmless
Hadronic B Decays at BABAR (T
Schietinger)ATLAS Physics

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Potential (J Sjolín) An Improved
Measurement of the Anomalous
Magnetic Moment of the Positive
Muon (A Trofimov) and other papers
Readership: High energy physicists.
Keywords: Fundamental Interactions
Fundamental Aspects of Weak

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The Unity of the Fundamental
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Coral Gables Conference on
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Proceedings of the Nineteenth

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of Subnuclear Phy
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Proceedings

This proceedings volume contains the latest results from the field of particle physics. The contributions cover the current status of all the Large Hadron

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Collider (LHC) experiments, the implications of the LHC for cosmology, and the search for dark matter and nuclear astrophysics. It also includes work on the current status of the future International Linear Collider (ILC).
Proceedings of the International

Where To Download Fundamental Interactions Proceedings Of The Twentieth Conference on Exotic Atoms and Related Topics (EXA 2011) held in Vienna, Austria, September 5-9, 2011 E.Widmann and O. Hartmann (Eds)

Now the research in exotic atoms has a remarkable history of more than 50 years. Enormous success in the understanding of fundamental

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interactions and symmetries resulted from the research on these tiny objects at the femtoscale. This volume contains research papers on recent achievements and future opportunities of this highly interdisciplinary field of atomic, nuclear, and particle physics. The

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Proceedings are structured according to the conference session topics:
Kaon-Nucleus and Kaon-Nucleon Interactions, Antihydrogen and Fundamental Symmetries, Hadronphysics with Antiprotons, Future Facilities and Instrumentation, Low energy QCD. Reprint from

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Hyperfine Interactions vol. 209, 210
and 211.

New Ideas in the Theory of
Fundamental Interactions
String Theory, Quantum Gravity And
The Unification Of The Fundamental
Interactions - Proceedings Of The
Conference

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Proceedings of the Second German-
Polish Symposium : September 1995,
Zakopane, Poland
Proceedings of the XXXII Semester in
the Stefan Banach International
Mathematical Center, Warsaw,
Poland, 19 September-3 December
1988

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**This proceedings volume
contains the latest
developments in particle
physics in collider
experiments. The
contributions cover new**

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**results such as the
production of quark-gluon
plasma in the heavy-ion
collider, the new techniques
for precision measurement
at low energies, and the
status of neutrino physics at**

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various laboratories
including the new facilities
that are at the planning
stage. Sample Chapter(s).
Chapter 1: Making Precision
Measurements at Hadron
Colliders: Two Lectures

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(1,408 KB). Contents:
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**Making Precision
Measurements at Hadron
Colliders: Two Lectures (H J
Frisch); Evidence for a
Quark-Gluon Plasma at
RHIC (J Harris); Neutrino**

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**Physics: A Selective
Overview (S Oser); Low-
Energy Tests of the
Standard Model (M
Pospelov); Leptonic B
Decays (M-C Chang); Cosmic
Neutrinos Beyond the**

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**Standard Model (U
Harbach); Proton Structure
from HERA (K Nagano); New
Phenomena Searches at CDF
(A Soha); Electroweak
Results at LEP2 (P
Spagnolo); and other**

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papers. Readership:
Lake Louise Winter Institute
Graduate students,
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academics and researchers
in particle and nuclear
physics."

The recent high precision
results from the LEP

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supercollider at CERN
appear favorable for
supergravity unification of
the electroweak and the
strong forces. The
proceedings of the SUSY 93
Workshop focus on further

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**precise predictions of
unification which may be
observed in the laboratory.
In addition, the proceedings
cover a wide range of other
topics in supersymmetry,
supergravity, particle**

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**physics, string theory and
cosmology and their
interconnections. They
include both theoretical and
experimental papers, hence
presenting a complete and
comprehensive picture of**

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this important subject.
Lake Louise Winter Institute
Dubna, Russia, 11-17 June,
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2001

**New Ideas in the Theory of
Fundamental Interactions,
September 1995 Zakopane,
Poland**

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**An Introduction to Particle
Physics
Fundamental Interactions at
High Energy I; Proceedings
Proceedings of the 23rd
Lake Louise Winter Institute,
Lake Louise, Alberta,**

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Canada, 18-23 February,
2008

This book is a unique report on the frontiers of subnuclear physics presented by world specialists in a clear, rigorous and simple way. The problem of the physical vacuum is presented in

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the opening lecture by T D Lee and the effective string-theoretical approach to cosmological vacua by G Veneziano. Effective theoretical approaches to light and heavy quark physics are presented by H Leutwyler and M Neubert. V N Gribov discusses the quark confinement and N Seiberg the problem of finding

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the effective actions in supersymmetric theories. A detailed analysis confronting electroweak theory with the high precision experimental data is presented by D Schildknecht. The great specialist in membrane theory, M Duff, presents the latest results of the 11-dimensional approach, while the finite temperature

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effective theories are discussed by M Shaposhnikov. The unification and the physics beyond the standard model constitute the content of the lectures by R Barbieri and D Nanopoulos. The experimental data from LEP and Hera are presented by M Pohl and G Wolf. N F Ramsey, the world specialist in the

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field, discusses how to explore the universe with atomic clocks. An elusive Z' is the subject of a specialised seminar by P Frampton. This volume contains the reports presented by a selected group of “new talents” on various topics in the field of subnuclear physics. This book contains pedagogical lectures

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**on both theoretical and experimental
particle physics, cosmology, and atomic
trap physics. Numerous additional
contributions provide up-to-date
information on new experimental
results from accelerators, underground
laboratories, and nuclear astrophysics.
This combination of pedagogical talks**

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and topical short discussions presents a comprehensive amount of information and latest developments to researchers.

Sample Chapter(s). Chapter 1: New Physics and the LHC (9,214 KB).

Contents: New Physics and the LHC (G Altarelli); Very High Energy Cosmic Rays: Results from the Pierre Auger

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Observatory (C E Covault); Neutrinos
at Lake Louise (S Davidson); Physics
Impact of the Tevatron (D C O'Neil);
Cosmology and the LHC (V Rubakov);
CMK Angle Measurements from
BABAR (J M Anderson); An Overview
of Top Quark Analyses from the CMS
Collaboration (J Andrea); Heavy Quark

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**Production at HERA and Heavy Quark
Contributions to the Proton Structure
Function (D Bartsch); ATLAS
Commissioning and Physics with Early
Data (P J Bell); Search for Heavy Stable
Charged Particles at CMS (J Chen); A
High-Sensitivity Search for Charged
Lepton Flavor Violation at Fermilab (E**

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C Dukes); Prospects for CP Violation
Studies at LHCb (V V Gligorov);
Measurements of a 3 () at Belle (Y
Horii); High P T Jets and Photons at Dy
(Z Hubacek); SUSY Search at ATLAS
(Y Kataoka); Neutrino Physics with the
IceCube Detector (J Kirkyluk);
Determination of the Strong Phase in D

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0 OaAE K + C - Using Quantum-
Correlated Measurements (A Lincoln);
Results on Top Quark Physics at Dy (Y
Peters); Quarkonium Production and
Polarisation with Early Data at ATLAS
(D D Price); and other papers.
Readership: Graduate students,
researchers and academics in high

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energy physics (HEP), astrophysics and
atomic physics."

**Proceedings of the International
Conference on Exotic Atoms and
Related Topics (EXA 2011) held in
Vienna, Austria, September 5-9, 2011
SUSY 02 ; [proceedings]
Proceedings of a Workshop**

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Proceedings of the conference "Physics
of fundamental interactions" dedicated
to the 100th anniversary of A. I.
Alikhanov's birth
Proceedings of the Second German-
Polish Symposium
String theory is the

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*candidate for the
unification of all
fundamental interactions
including gravity. In
the past few years this
active field of research
has developed very*

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*rapidly and in several
different directions.*

*The aim of the
conference is to give an
overview of the status
of the art in string
theory through the*

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*contributions of the
major experts in this
field. The main topics
include: string
unification and
effective Lagrangians,
N=2 string theories, 2-d*

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*quantum gravity, stringy
black holes, topological
field theory, conformal
field theories, strings
and quantum field
theory.*

The 23 review lectures

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*in this volume were
presented by prominent
specialists in the
field. The scope is
wide: major trends in
gauge field theory and
its applications are*

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*covered. A considerable
part of the articles
contain previously
unpublished results.*

*Gauge Theories of
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on Fundamental
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22-26 January, 1973
Particles and
Fundamental Interactions
The Investigation of

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*with Cold Neutrons
Elementary Particles and
Fields*

This book contains pedagogical lectures on both theoretical and experimental particle physics,

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cosmology, and atomic trap physics. Numerous additional contributions provide up-to-date information on new experimental results from accelerators, underground laboratories, and nuclear astrophysics. This combination of

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pedagogical talks and topical short discussions presents a comprehensive amount of information and latest developments to researchers.

Work on the unification of the fundamental particle interactions has continued vigorously since the

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first Europhysics study Conference on this subject. At that time we emphasized the existence of two main approaches, one based on supersymmetry and possibly its local version, supergravity, and the other approach based on grand

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unified gauge theories. Discussion of the possible tests of these theoretical speculations included experiments on baryon decay and neutrino oscillations. In view of the uncertainties surrounding the observability of such phenomena, the

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early Universe was welcomed as a possible Laboratory for testing new theoretical ideas. At that time, we expressed the hope that the different gauge and super symmetry approaches would cross-fertilize each other" and it is appropriate to

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ask now how much of that hope has been realized. We believe there has recently been considerable theoretical rapprochement, which is amply reflected in these Proceedings. On the one hand it has been realized that many of the technical problems

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in grand unified gauge theories, such as arranging the hierarchy of different mass scales, may be alleviated using simple global supersymmetry. On the other hand there has been growing interest in the possibility that extended

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supergravity theories may furnish a suitable framework for the unification of all the fundamental particle interactions. Many physicists in fact now question actively whether the known "fundamental" particles are in deed

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elementary, or whether they are composite.

Effective Theories And Fundamental Interactions - Proceedings Of The International School Of Subnuclear Physics

Unification of the Fundamental

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Conference on Supersymmetry and
Unification of Fundamental
Interactions
Proceedings of the 21st Lake Louise

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Winter Institute, Lake Louise,
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This book addresses the theoretical, phenomenological and experimental aspects of supersymmetry in particle physics as well as its implications in cosmology. Contents: SUSY and Higgs

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Searches: Experimental Results:Chargino
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Hensel)Higgs Searches at LEP (S
Andringa)R-Parity Violation Searches at
LEP (R Barbier)Searches for Charged
Higgs Bosons (M Ellert)SUSY, Higgs and
GUT Phenomenology:SUSY
Phenomenology at the EW and the GUT

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Scales (G Altarelli) Revealing SUSY at
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(S Scopel) Linear Collider Signals of
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Breaking (S Roy) SUSY Theory and
SUSY QFT: Low Energy Supersymmetry
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Branes with Spontaneously Broken
Supersymmetry (D Sorokin) Soft
Supersymmetry Breaking from Coset
Space Dimensional Reduction (P
Manousselis & G Zoupanos) Interacting
Noncommutative Lumps (C
Sochichiu) and other papers Readership:
Graduate students, academics and

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researchers in accelerator, high-energy and
theoretical physics.

Keywords:Supersymmetry;Particle
Physics;Cosmology;SUSY;Higgs
Searches;GUT Phenomenology;Neutralino
Dark Matter;Warped Brane

This volume contains pedagogical lectures
on particle physics, nuclear astrophysics,

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relativistic heavy ion interactions and gravitational waves. In addition, numerous contributions provide up-to-date information on new experimental results at colliders, underground laboratories and nuclear astrophysics. This combination of pedagogical talks and topical short talks provide a comprehensive amount of

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information to the researchers. Contents:
Lepton Flavour Violating Tau Decays (S
Banerjee)Hadron Spectroscopy at HERA
(M Barbi)Higgs Physics with CMS (T
Boccali)Final Results from the Muon G-2
Experiment (G Bunce)Recent Results in
Diffraction at HERA (J E Cole)Status of
Parity Violation in Cesium (J

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Ginges) Neutrino Physics in the Seesaw
Model (E Jenkins) Recent QCD Results
from CDF (S Lami) Neutron Stars as Type
I Superconductors (M A Metlitski) Top
Quark Physics at CDF (J Nielsen) Two-
Loop QCD Corrections to Top Quark
Decay (M Slusarczyk) Rare Decays at
Belle (R Stamen) Recent Beauty Physics

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papers Readership: Graduate students,
researchers and academics in high energy
physics, particle physics and astrophysics.
Keywords:Particle Physics;Nuclear
Astrophysics;Relativistic Heavy Ion
Physics;Gravitational Waves

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Semester In The Stefan Banach
International Mathematical Center
Proceedings of the 16th International
Conference (SUSY08), Seoul, Korea,
16-21 June 2008
Unification of Fundamental Interactions

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Supersymmetry And Unification Of
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Fundamental Interactions (Susy 93) -
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Proceedings of the 22nd Lake Louise
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Canada, 19-24 February, 2007

This book addresses the

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*theoretical, phenomenological
and experimental aspects of
supersymmetry in particle
physics as well as its
implications in cosmology.*

*The book provides theoretical
and phenomenological insights*

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*on the structure of matter,
presenting concepts and
features of elementary particle
physics and fundamental
aspects of nuclear physics.
Starting with the basics
(nomenclature, classification,*

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*acceleration techniques,
detection of elementary
particles), the properties of
fundamental interactions
(electromagnetic, weak and
strong) are introduced with a
mathematical formalism suited*

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*to undergraduate students.
Some experimental results
(the discovery of neutral
currents and of the W^\pm and Z^0
bosons; the quark structure
observed using deep inelastic
scattering experiments) show*

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*the necessity of an evolution of
the formalism. This motivates
a more detailed description of
the weak and strong
interactions, of the Standard
Model of the microcosm with
its experimental tests, and of*

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*the Higgs mechanism. The
open problems in the Standard
Model of the microcosm and
macrocosm are presented at
the end of the book. For
example, the CP violation
currently measured does not*

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*explain the matter-antimatter
asymmetry of the observable
universe; the neutrino
oscillations and the estimated
amount of cosmological dark
matter seem to require new
physics beyond the Standard*

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*Model. A list of other
introductory texts, work
reviews and some specialized
publications is reported in the
bibliography. Translation from
the Italian Language Edition
"Particelle e interazioni*

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and Fundamental Symmetries
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Proceedings of Nobel
Symposium 67, Marstrand,
Sweden, June 2-7, 1986
The 10th International
Conference on Supersymmetry*

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The Lake Louise Winter Institute is held annually to explore recent trends in high energy physics in an informal setting. Pedagogical and review lectures are presented by invited experts.

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A topical workshop is held in conjunction with the Institute, with presentations by participants. Contents:
Study of Charmed Particles
Production and Decay in
Neutrino Interactions (E

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Barbuto) Measurement of
Triple Gauge-Boson
Couplings in ALEPH (R
Brunelière) Recent Studies on
Sparticles and MSSM Higgses
at CMS (M
Chiorboli) Measurement of

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Production at HERA (J
Kroseberg) Quantum
Electrodynamics in Strong
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Leahy) Spectroscopy of

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Processes (A J M
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N Safonov) Single Spin
Azimuthal Asymmetries in
Semi-Inclusive
Electroproduction of Pions
and Kaons (R-C Seidl) and
other papers Readership:

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Graduate students,
academics and researchers
in high energy and
theoretical physics.

Keywords: High Energy
Physics; Fundamental
Interactions; Heavy

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Lions; Neutrinos and Ultra-
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