

Get Free Fisica  
Generale 1

# Fisica Generale 1

Il corso  
presentato è  
costituito dalle  
copie delle  
diapositive  
proposte in  
formato  
PowerPoint nel  
corso di Fisica 1,

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Meccanica e  
Termodinamica,  
per gli studenti di  
Ingegneria Civile.  
Il testo è frutto  
del lavoro  
decennale svolto  
dal prof. Paolo  
Sartori nei corsi  
erogati in  
videoconferenza  
per la laurea in  
Ingegneria

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Informatica e  
successivamente  
nei corsi in  
presenza di  
Ingegneria  
dell'Informazione  
e di Ingegneria  
Civile.

This volume  
comprises the  
communications  
presented at the  
EUROMECH

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European  
Turbulence  
Conference  
ETC12, held in  
Marburg in  
September 2009.  
The topics  
covered by the  
meeting include:  
Acoustics of  
turbulent flows,  
Atmospheric  
turbulence,

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Control of  
turbulent flows,  
Geophysical and  
astrophysical  
turbulence,  
Instability and  
transition,  
Intermittency and  
scaling, Large  
eddy simulation  
and related  
techniques,  
Lagrangian

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aspects, MHD  
turbulence,  
Reacting and  
compressible  
turbulence,  
Transport and  
mixing,  
Turbulence in  
multiphase and  
non-Newtonian  
flows, Vortex  
dynamics and  
structure,

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formation, Wall  
bounded flows.  
Strangeness in  
Nuclear and  
Hadronic Systems  
: SENDAI08,  
Sendai, Japan,  
15-18 December  
2008, Pre-  
Symposium 14  
December 2008  
Elementi di fisica  
generale

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dell'abate  
Domenico Scinà  
meccanica  
Massive  
Neutrinos  
Strangeness  
Nuclear Physics -  
Proceedings Of  
The Apctp  
Workshop (Snp  
'99)  
Science Teacher  
Education



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**Turbulence,  
intermittency,  
nonlinear  
dynamics, fluid  
mechanics.**

**It is over a quarter  
of a century since  
the discovery of  
outflows from  
young stars. The  
intervening years  
have led to  
remarkable  
advances in our**

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**understanding of this phenomenon. Much of the progress can be attributed to advances in facilities and technologies, including not only larger telescopes but also improved instrument and detector performance. In**

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**addition  
protostellar  
outflows have now  
been imaged from  
the ground and  
space at high  
spatial resolution,  
e. g. with HST, and  
at a wide - riety of  
wavelengths from  
X-rays to radio  
waves, revealing  
more and more  
about their**

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**physics. This veritable revolution in observation has been accompanied by an exponential growth in our ability to numerically simulate the launching and propagation of jets. Codes continue to improve: they now**

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**incorporate more physics and are increasingly efficient through, for example, techniques such as adaptive mesh refinement and the use of parallel processing in cluster environments. Simulating the launching and**

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**propagation of a jet all the way from the vicinity of the star up to 4 several thousand AU (a size range of  $10^4$ ) is now much closer.**

**In more recent times, developments in observation, theory and numerical simulation have been joined by**

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**laboratory jet  
experiments  
reproducing, on  
centimetre scales,  
that which is seen  
in astrophysics to  
stretch for several  
parsecs.**

**Fisica Generale e  
Sperimentale.**

**Volume 1:**

**Meccanica, Fisica**

**Fisica generale 1**

**Fisica Generale**

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## **Jets From Young Stars III Elementi di fisica generale Reports from Committees**

Fisica generale 1  
Fisica generale 1  
Elementi di fisica generale  
1  
Lezioni di Fisica Generale  
1  
Società Editrice Esculapio

The unique role of strangeness in nuclear



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physics has recently attracted much attention, from both the theoretical and experimental viewpoints. This is due not only to the broad spectrum of possible hadron many-body systems with strangeness, but also to the fact that strangeness gives us an opportunity to study

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fundamental baryon-baryon interactions in a new perspective. Our knowledge of this subject has widened as the scope of hypernuclear experiments has expanded from strangeness exchange and the associated production reactions to hypernuclear weak decays,  $\Lambda$  decays,

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cascade hypernuclei,  
double- $\Lambda$  events,  
electroproduction of  
strangeness, etc. This  
trend will be  
accelerated by the full  
operation of new  
laboratories such as  
TJLab, COSY,  
DAÈNE, JHF, MAMI,  
and others. Various  
aspects of those  
important and exciting  
topics are discussed in

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this book in order to get a perspective of this fast developing area of nuclear physics.

Four (4) Programmes Issued by the Ministry of Public Instruction]

General Relativity  
And Gravitational  
Physics - Proceedings  
Of The 10th Italian  
Conference

esercizi di meccanica e

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termodinamica  
Elementi di fisica  
generale dell'abate  
Domenico Scinà ...  
Tomo 1. [-2.]  
From Quark-Gluon  
Plasma to  
Superstrings,  
Quantum Gravity and  
Beyond - Proceedings  
of the International  
School of Subnuclear  
Physics  
Advances in

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Turbulence XII  
Analysis of past developments in teacher education in Pakistan has shown that substantial progress has been made in this field. It has, however, been pointed out that education of science teachers still needs much improvement.

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At the present, there is an emergent need to meet the shortage of qualified science teachers and at the same time to bring qualitative improvements in the courses offered in teacher education institutions. First, we recommend that the 1-year duration of

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teacher preparation is grossly inadequate for all teaching courses, and should be lengthened, and the qualifications for entrance be increased.

We believe that teaching must be made a graduate profession. For example, the basic qualification of



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primary school teachers for admission to teacher education institution should be increased. We recommend that PTC should be made a 12 + 2 year program. Similarly, CT, 12 + 3; B. Ed. , 14 + 2; B. S. Ed. , 12 + 4; M. A. Ed. , 14 + 3; and M. Ed. one year after B.

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Ed. or B. S. Ed.

Secondly, we think the quality of instruction in teacher preparation programs should be improved. Most teachers in the teacher preparation institutions use the lecture method most of the time.

Prospective teachers behave like passive

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listeners to their teachers. They do not participate in the teaching/ learning process. Some instructors even dictate their notes to the preservice teachers. When the teachers join schools, they behave the same way.

Strangeness and Spin

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in Fundamental  
Physics is dedicated to  
the discussion of the  
role played by two  
subtle and somehow  
puzzling quantum  
numbers, the  
strangeness and the  
spin, in fundamental  
physics. They both  
relate to basic  
properties of the  
fundamental quantum

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field theories describing strong and electro-weak interactions and to their phenomenological applications. In some instances, like the partonic spin structure of the proton, they are deeply correlated. The many puzzling results recently obtained by

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measuring several spin asymmetries have stimulated gigantic progresses in the study of the spin structure of protons and neutrons. Intense theoretical activity has discovered new features of non-perturbative QCD, like strong correlations between the spin and the intrinsic motions

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of quarks inside the nucleons. The purpose of this publication is that of providing a complete, updated and critical account of the most recent and relevant discoveries in the above fields, both from the experimental and theoretical sides. Proceedings of the Sendai International

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Symposium

Complementi al corso  
di fisica generale 1

Esercizi di fisica  
generale 1

Neural Networks:  
From Biology To  
High Energy Physics -  
Proceedings Of The  
2nd Workshop  
Schools of Italy

Esercitazioni di fisica  
generale 1. Esercizi e



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problemi risolti di  
meccanica e  
termodinamica  
The hunt for a  
beautiful  
princess--and a  
king's  
treasure--brings  
Conan to the  
edge of the  
world, and the  
devil-ridden lands  
of the Nameless

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Isle. Awaiting him will be his fiercest battle: the cold steel of his sword against the hell-fed powers of the sorcerer Thoth-Ammon.

“The US National Science Foundation (NSF) Research

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Experiences for Undergraduates (REU) program in mathematics is now 25 years old, and it is a good time to think about what it has achieved, how it has changed, and where this idea will go next." This was the premise

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of the conference held at Mt. Holyoke College during 21-22 June, 2013, and this circle of ideas is brought forward in this volume. The conference brought together diverse points of view, from NSF

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administrators,  
leaders of  
university-wide  
honors programs,  
to faculty who  
had led REUs,  
recent PhDs who  
are expected to  
lead them soon,  
and students  
currently in an  
REU themselves.  
The conversation

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was so varied that it justifies a book-length attempt to capture all that was suggested, reported, and said. Among the contributors are Ravi Vakil (Stanford), Haynes Miller (MIT), and Carlos

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Castillo-Chavez  
(Arizona,  
President's  
Obama  
Committee on the  
National Medal of  
Science  
2010-2012). This  
book should  
serve not only as  
a collection of  
speakers' notes,  
but also as a

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source book for  
anyone interested  
in teaching  
mathematics and  
in the possibility  
of incorporating  
research-like  
experiences in  
mathematics  
classes at any  
level, as well as  
designing  
research



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experiences for  
undergraduates  
outside of the  
classroom.

Protostellar Jets  
in Context

Nuclei in the  
cosmos V

meccanica,  
termodinamica

Conan the  
Buccaneer

Tests of

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Fundamental  
Symmetries  
raccolta di  
problemi di  
meccanica e  
termodinamica  
*Ownership-based  
economics has  
led to the  
rapid  
development and  
apparent  
universal*

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*success of the  
market economy.  
It is a system  
built on the  
deception of  
resource  
availability,  
ill-defined  
profit, and  
misled by the  
idea that an  
invisible hand  
can be an*

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*equitable  
system of  
distribution.  
It has resulted  
in a high  
living standard  
for a few  
select  
individuals,  
but at the  
expense of  
mankind and  
nature,*

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*ultimately  
culminating in  
the development  
of human  
conflict. This  
is a book with  
a blueprint for  
the twenty-  
first century,  
proposing a two-  
fold approach  
to easing the  
pressure on*

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*both the human  
race and the  
world we live  
in. It calls  
for a change of  
mindset from  
ownership to  
stewardship and  
a shift of  
responsibility  
to the  
corporate  
entities as a*

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*sub-system of  
the market  
economy.*

*The unique role  
of strangeness  
in nuclear  
physics has  
recently  
attracted much  
attention, from  
both the  
theoretical and  
experimental*

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*viewpoints.  
This is due not  
only to the  
broad spectrum  
of possible  
hadron many-  
body systems  
with  
strangeness,  
but also to the  
fact that  
strangeness  
gives us an*



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*opportunity to  
study  
fundamental  
baryon-baryon  
interactions in  
a new  
perspective.  
Our knowledge  
of this subject  
has widened as  
the scope of  
hypernuclear  
experiments has*

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*expanded from  
strangeness  
exchange and  
the associated  
production  
reactions to  
hypernuclear  
weak decays,  $\beta$   
decays, cascade  
hypernuclei,  
double- $\Lambda$   
events, electro  
production of*

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*strangeness,  
etc. This trend  
will be  
accelerated by  
the full  
operation of  
new  
laboratories  
such as TJLab,  
COSY, DAΦNE,  
JHF, MAMI, and  
others. Various  
aspects of*

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*those important  
and exciting  
topics are  
discussed in  
this book in  
order to get a  
perspective of  
this fast  
developing area  
of nuclear  
physics.*

*Complementi di  
fisica generale*

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1

*Comptes rendus  
de l'atelier  
sur la physique  
des K, Orsay,  
France, 1996*

*Complementi ed  
esercizi di  
fisica generale*

1

*Proceedings of  
The IX  
International*

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*Conference on  
Hypernuclear  
and Strange  
Particle  
Physics*

*1*

*Proceedings of  
the 12th  
EUROMECH  
European  
Turbulence  
Conference,  
September 7-10,*

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***2009, Marburg,  
Germany***

From August 29 to September 7, 2006, a large group of distinguished lecturers and young physicists coming from various countries around the world met in Erice, Italy, at the Ettore Majorana Foundation and Centre for Scientific

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Culture (EMFCSC) for the 44th course of the International School of Subnuclear Physics: OC The Logic of Nature, Complexity and New Physics: From Quark-Gluon Plasma to Superstrings, Quantum Gravity and BeyondOCO. This book is a collection of lectures given during



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the course, covering the most recent advances in theoretical physics and the latest results from current experimental facilities. Following one of the aims of the School, which is to encourage and promote young physicists to achieve recognition at an international level, the

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students who have distinguished themselves for their excellence in research have been given the opportunity to publish their presentations in this volume.

Importance of strange quarks in hadrons, nuclei and dense matter / A. W.

Thomas -- Overview

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of strangeness  
nuclear physics / A.  
Gal -- Experimental  
overview and  
challenge in  
strangeness nuclear  
physics / K. Imai --  
Recent QCD results  
on the strange hadron  
systems / M. Oka --  
Strangeness physics  
with CLAS / V. D.  
Burkert -- Progress  
and issues in the

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electromagnetic  
production of kaon on  
the nucleon / T. Mart  
-- Neutral kaon  
photoproduction at  
LNS, Tohoku  
University / M. Kaneta  
et al. for the  
NKS/NKS2  
collaboration --  
Photoproduction of  
the [symbol]  
resonance from the  
neutron / K. H. Hicks

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and D. Keller for the  
LEPS collaboration --  
Photo- and  
electroproduction of  
kaons / P.

Bydzowski --  
Strangeness  
production at ELSA /  
V. Kleber for the  
CBELSA/TAB  
collaboration -- Low  
Q<sup>2</sup> kaon  
electroproduction / P.  
Markowitz and A.

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Acha for the JLab  
E94-107 and Hall A  
collaborations --  
Results on  
strangeness  
production from  
HADES / A. Schmah  
for the HADES  
collaboration --  
[symbol] photo-  
production on the  
deuteron at LNS,  
Tohoku University / T.  
Ishikawa -- Current

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status of the GO  
parity violation  
experiment carried  
out at Jefferson  
Laboratory / L. Bimbot  
for the GO  
collaboration --  
Production and  
searches for cascade  
baryons with CLAS /  
E. S. Smith for the  
CLAS collaboration --  
Nijmegen Baryon-  
Baryon interactions S

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= -1,-2 systems / Th.

A. Rijken, M. M.

Nagels and Y.

Yamamoto -- Hyperon-  
nucleus systems in G-  
matrix approach / Y.

Yamamoto --

[symbol]C(O[symbol])  
and [symbol]O

potentials derived  
from the SU[symbol]  
quark-model Baryon-  
Baryon interaction / Y.

Fujiwara, M. Kohno



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and Y. Suzuki  
Numerical MHD and  
Instabilities

An International  
Perspective

Transactions of the  
International

Astronomical Union,  
Volume XVIIIB

2

Lezioni di Fisica  
Generale 1

October 10-14, 2006,  
Mainz, Germany

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This volume contains the proceedings of the IX International Conference on Hypernuclear and Strange Particle Physics (HYP 2006). This conference series is devoted to the progress of our knowledge about strangeness flavor in hadron and nuclear physics. Besides the

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traditional topics such as hadron structure, hypernuclear spectroscopy and weak decay of hypernuclei, a particular focus of this conference was on the properties of strange mesons and their binding in nuclear systems. The role of exact

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sciences in  
connection with  
cultural heritage now  
is well established  
and a new scientific  
branch has been  
generated:

Archaeometry.

Literally,

Archaeometry means  
measurement on  
ancient objects. It is a  
multidisciplinary field  
of investigations

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where the rigorous methods of exact sciences give a fundamental contribution to solving the problems associated with conservation and restoration, as well as to the study itself of the cultural heritage. Archaeometry, as a scientific research field, involves

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interdisciplinary groups formed by scholars of the humanistic area together with scientists: physicists, chemists, mathematicians, biologists, engineers, etc. The primary justification for the need of involving exact sciences in the field which, in the

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past, traditionally has been exclusive of Art Historians must no doubt be found in the conservation and restoration activities. The second argument which, in the public opinion, justifies the involvement of science with the world of Art is the confidence that scientific methods

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are infallible in unmasking forgeries. But in our opinion the awareness of the central role of scientific methods as a support for philological and historical investigations is still very little diffuse or, at least, finds it hard to become widespread. Perhaps



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also because of our mentality, Physics, compared to chemistry, is more apt to find applications in a context free from authentication or conservation implications.

Lezioni di fisica  
generale 1

Proceedings of the  
*Page 73/84*

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APCTP Workshop  
(SNP'99), Seoul  
National University,  
Seoul, Korea, 19-22  
February 1999

The Logic of Nature,  
Complexity and New  
Physics

Physics Methods in  
Archaeometry

Intermittency in  
Turbulent Flows

***The study of the  
mechanisms that***

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***govern origin  
and propagation  
of stellar jets  
involves the  
treatment of  
many concurrent  
physical  
processes such  
as gravitation,  
hydrodynamics  
and magnetohydrodynamics,  
atomic physics  
and radiation. In***

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***the past years,  
an intensive  
work has been  
done looking for  
so- tions of the  
ideal MHD  
equations in the  
steady state  
limit as well as  
studying the  
stability of  
outflows in the  
linear regime.  
These kind, of***

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***approaches have provided a contribution to the understanding of jets that can hardly be overestimated. However, the extension of the analyses to the time-dependent and nonlinear regimes could***

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***not be avoided,  
and the MHD  
numerical  
simulations were  
the only mean to  
achieve this  
goal. In the recent  
years, considerable  
progress has  
been made by the  
computational  
fluid dynamic  
community in the  
development of  
numerical***

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**chniques, these-  
called high resolut  
ions shock capturin  
gschemes, well su  
ited for the tre-  
ment of  
supersonic flows  
with  
discontinuities.  
The numerical  
simulations of  
astrophysical  
jets took  
advantage of**

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***these  
developments;  
however new  
physics needed  
to be  
incorporated,  
such as magnetic  
field effects,  
radiation losses  
by diluted gases,  
and proper  
astrophysics  
environments.  
These needs led***



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***to the nontrivial extension of the methods devised for the Euler equations of g-dynamics to the magneto-hydrodynamical system. On the other hand, the possibility of carrying out numerical calculations has***

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***been greatly facilitated by the availability, on one hand, of powerful supercomputers and, on the other hand, of fast processors at low cost. Large scale 3D simulations of jets at high resolution are now possible***

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***thanks to  
supercomputers,  
but also high  
reso- tion 2D  
MHD simulations  
can be  
performed  
routinely on  
desktop  
computers.  
Strangeness and  
Spin in  
Fundamental  
Physics***

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***Strangeness  
Nuclear Physics  
Air Force  
Surveys in  
Geophysics***