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- CERN Document Server: institutional scientific document repository
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  - Other HEP-related documents of interest
- Provides access to additional information
  - e-bulletins, e-books, e-journals, etc
- Underlying software (Invenio) used world wide

- Navigable collection tree

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### Focus on:

- CERN Articles & Preprints** (95,348)
  - [CERN Published Articles](#) (52,371) [CERN Preprints](#) (16,115)
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- CERN Series** (15,924)
  - [CERN Annual Reports](#) (2) [CERN Yellow Reports](#) (1,130)
  - [CERN Theory](#) (12,510) [Academic Training Lectures](#) (615)
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- CERN Departments** (75,937)
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  - [Physics \(PH\)](#) (38,419) [Secretariat-General \(SG\)](#) (11,028)
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- CERN Experiments** (22,435)
  - [Fixed Target Experiments](#) (118) [LEP Experiments](#) (5,545) [LHC Experiments](#) (16,228) [Recognized Experiments](#) (552)
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neutrino mixing    any field    **Search**    **Browse**

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1. **Constraining sterile neutrinos with a low energy beta-beam** / [Agarwalla, Sanjib Kumar](#)  
 Task hep-ex  
 We study the possibility to use a low energy beta-beam facility to search for sterile neutrinos by measuring the disappearance of electron anti-neutrinos. This channel is particularly sensitive since it allows to use inverse beta decay as detection reaction; thus it is free from hadronic uncertainties, provided the neutrino energy is below the pion production threshold. [...]  
[arXiv:1006.1640](#); VPI-IPNAS-10-10.- 2010 - Published in : Published in AIP Conf.Proc.: 1222 (2010) , pp. 169-173 [Preprint](#)  
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- 8. **Bridging flavour violation and leptogenesis in SU(3) family models** / [Calibbi, Lorenzo](#) (Max-Planck-Institut fuer Physik) ; [Chun, Eung Jin](#) (Korea Institute for Advanced Study)  
We reconsider basic, in the sense of minimal field content, Pati-Salam x SU(3) family models which make use of the Type I see-saw mechanism to reproduce the observed mixing and mass spectrum in the neutrino sector. [...]  
[arXiv:1005.5563](#) ; [KIAS-P10014](#) ; [IC-2010-021](#) ; [MPP-2010-58](#). - 2010.  
[Preprint](#)  
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- 9. **Rare muon and tau decays in A4 Models** / [Feruglio, Ferruccio](#) ; [Paris, Alessio](#)  
We analyze the most general dimension six effective Lagrangian, invariant under the flavour symmetry A4 x Z3 x U(1) proposed to reproduce the near tri-bimaximal lepton mixing observed in neutrino oscillations. [...]  
[arXiv:1005.5526](#) ; [DFPD-10-TH-9](#). - 2010.  
[Preprint](#)  
[Detailed record](#) - [Similar records](#)
- 10. **Quark and lepton mixing angles with a dodeca-symmetry** / [Kim, Jihn E](#) ; [Seo, Min-Seok](#)  
The discrete symmetry D\_12 at the electroweak scale is used to fix the quark and lepton mixing angles. [...]  
[arXiv:1005.4684](#). - 2010.  
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*Standard Model (3)*

### Standard Model

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3 items, 2 notes

last update: 11 Jun 2010, 14:21

1. **Non-Abelian Flat Directions in a Minimal Superstring Standard Model** / [Clever, G B](#) ; [Faraggi, A E](#) ; [Nanopoulos, Dimitri V](#) ; [Walker, J W](#) [ACT-2000-1] [CTP-TAMU-2000-2] [OUTP-2000-03-P] [TPI-MINN-2000-6] [hep-ph/0002060]

Recently, by studying exact flat directions of non-Abelian singlet fields, we demonstrated the existence of free fermionic heterotic-string models in which the  $SU(3)_C \times SU(2)_L \times U(1)_Y$ -charged matter spectrum, just below the string scale, consists solely of the MSSM spectrum. [...]

Published in **Mod. Phys. Lett. A: 15 (2000) pp. 1191-1202**

Fulltext: [PDF](#); [PS.GZ](#)

[Detailed record - Notes \(2\)](#)

[Copy item](#) [Remove item](#)

2. **Precise calculation of parity nonconservation in cesium and test of the standard model** / [Dzuba, V A](#) ; [Flambaum, V V](#) ; [Ginges, J S M](#) [hep-ph/0204134]

We have calculated the 6s-7s parity nonconserving (PNC) E1 transition amplitude,  $E_{\{PNC\}}$ , in cesium. [...]

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Standard Model

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Linux, Python, SQL

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**Books** 2 records found Search took 0.10 seconds.

- 1.  **Python Cookbook .** - 2nd ed. / [Martelli, Alex](#)  
 Beijing : O'Reilly, 2005. - 807 p.  
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- 2.  **Python Cookbook** / [Martelli, Alex](#) (ed.) ; [Ascher, David](#) (ed.)  
 Beijing : O'Reilly, 2002. - 574 p.  
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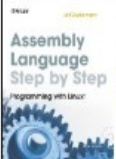
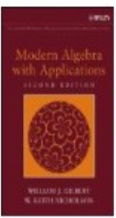
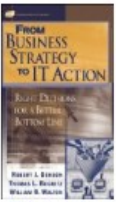
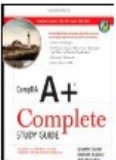


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5.  **Assembly Language Step-by-Step : Programming with Linux .** - 3rd ed. electronic version / [Duntemann, Jeff](#)  
Hoboken, NJ : Wiley, 2009. - 646 p.  
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| <a href="#">IEEE transactions on magnetics</a>                                 | <a href="#">Physical review letters</a>          |
| <a href="#">IEEE transactions on nuclear science</a>                           | <a href="#">Physical review special topics :</a> |
| <a href="#">Journal of high energy physics - JHEP</a>                          | <a href="#">Accelerators and beams</a>           |
| <a href="#">Journal of instrumentation - JINST</a>                             | <a href="#">Physical review, D</a>               |
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- Read e.g. Encyclopaedia Britannica online

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- [Chicago Manual of Style](#)
- [Oxford Reference Online](#)

## Dictionaries

- "[Cernese](#)" - CERN Translation Service's bilingual glossary (AIS Login Name and Password required)
- [CERN Acronyms](#)
- [Le Grand Robert](#)
- [Merriam-Webster](#)
- [Oxford English Dictionary](#)
- [WordReference.com - French-English English-French Dictionary](#)
- Other [dictionaries](#) on the net
- [Check spelling and grammar](#) of the main languages in the CERN member states

## Encyclopedias

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- [Encyclopædia Universalis](#), 30,000 articles and 16,000 multimedia objects, covering all subjects.
- [Encyclopedia of Astronomy and Astrophysics](#)
- Other [encyclopedias](#) and [handbooks](#) on the net



- Access INSPEC and other bibliographic databases and resources

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- [Astronomy and Astrophysics Abstracts](#) (Astronomy, 1899-2000)
- [ADS Abstracts Service](#) (Astronomy and physics, 1849- )
- [CERN Document Server](#) (High energy physics, 1668- )
- [Compendex](#) (Engineering, 1976-)
- [CrossRef Search](#) (General, 1893- )
- [EnergyPortal](#) (Energy-related collections, 1915- )
- [ETDEWEB](#) (Energy and related topics, 1995- )
- [INIS](#) (Nuclear science, 1970- )
- [INSPEC](#) (Physics, electronics and computing, 1898- )
- [Medline](#) (Medicine, 1965- )
- [NTIS](#) (Sci-Tech, multidisciplinary, reports, 1964-)
- [Nuclear Science Abstracts](#) (Nuclear science and technology, 1948-1976)
- [Scitopia](#) (Sci-Tech, multidisciplinary, "150 years coverage")
- [SLAC SPIRES](#) (High energy physics, 1961- )
- [INSPIRE \(Beta version\)](#) (High energy physics, 1961- )
- [Techniques de l'Ingénieur](#) (Engineering, 1946-)
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**Vague but exciting... CERN celebrates 20 years of the Web in the Globe of Science and Innovation the 13th of March 2009**

Produced by: CERN Audiovisual Service

Director: CERN Audiovisual Service

180:05 min. / 13 March 2009 / CERN

Keywords: [World Wide Web](#), [WWW](#), [2009](#), [anniversary](#), [Tim Berners-Lee](#), [celebration](#)

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Language: English

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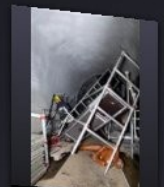
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Inside view of M2-M5



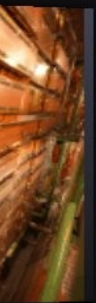
LHCb installs its precision silicon detector, the VELO



Safety Training for the CERN Fireman at point 8 in the cavern of the LHCb



LHCb VELO: RF boxes



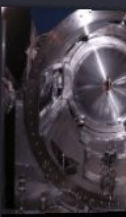
President of the Autonomous Government of Galicia Spain E. Pérez Touriño at the LHCb handling laboratory on 10 November 2006.



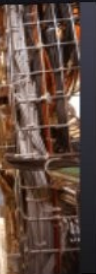
H.E. Mr. Chihiro Fujisaki, Ambassador Extraordinary and Plenipotentiary Representative of Japan to the Office of the United Nations and the other international organisations in Geneva ...



LHCb shielding



LHCb VELO: installation



Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq) President E. F. Plessmann de Camargo and Director M. Barra Netto at LHCb experiment with I. de Bediaga on 13 ...



View of the LHCb beam pipe and the people that worked on it.



Assembling the last module of the vertex locator for LHCb



VELO construction system

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Issue No. 23-24/2010 - Monday 7 June 2010

- News Articles
- Official News
- Training and Development
- General Information
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## Lyn Evans decelerates!



After more than 40 years at CERN, 15 of which were dedicated to ensuring that the LHC comes to completion, Lyn Evans is retiring. The Imperial College Professor and recently-elected Fellow of the British Royal Society has set himself new challenges, but plans to keep strong links with CERN. His big thank you goes to the many hundreds of

people who built one of the most complex scientific instruments ever conceived by mankind. >>



## What's New

### News Articles

- Lyn Evans decelerates!
- Security needs you
- New computer security campaign
- A better beam quality
- Uniting forces in physics and medicine
- Neutrino oscillations make their first appearance in OPERA
- It sounds good!
- "Draw me a physicist" exhibition opens
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- Collaboration with DESY, FNAL, SLAC

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Welcome to a preview of the INSPIRE service. The data in INSPIRE is updated daily and should be the same as what is available from SPIRES, or better.

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A few words  
[1985 richter quark multiplicity](#)

Eprint number  
[arXiv:0902.3702](#)

More complex  
[\(symmetry or asymmetry\) author:gell-mann -quark](#)

SPIRES syntax is (mostly) supported (and improving)  
[find a richter, burton and t quark and date > 1984](#)

Range searching  
[author:randall author:sundrum cited:450->1350](#)

More  
See [INSPIRE help](#).

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**RESOURCES**

- arXiv
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- PDG



- Successor of SPIRES, built with Invenio
- Non-CERN material, so e.g. citations

Cited by: 952 records

- (301) [Phenomenology with Massive Neutrinos](#) - [Gonzalez-Garcia, M.C.](#) et al/ arXiv:0704.1800 [hep-ph] YITP-SB-07-14, UB-ECM-PF-07-08
- (281) [Neutrino masses and mixings and...](#) - [Strumia, Alessandro](#) et al/ hep-ph/0606054 IFUP-TH-2004-1
- (225) [Quark Lepton Symmetry and Mass Scales in an E6 Unified Gauge Model](#) - [Achiman, Yoav](#) et al/ HD-THEP-78-6, WU B-78-20
- (223) [Theory of neutrinos: A White paper](#) - [Mohapatra, R.N.](#) et al/ hep-ph/0510213 FERMILAB-TM-2342-T, SLAC-PUB-11622
- (203) [Neutrino Mass and New Physics](#) - [Mohapatra, R.N.](#) et al/ hep-ph/0603118

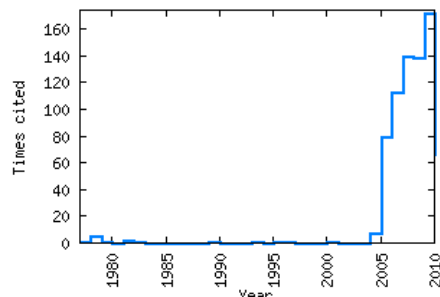
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- (775) [Neutrino Mass and Spontaneous Parity Violation](#) - [Mohapatra, Rabindra N.](#) et al/ MDDP-TR-80-060, MDDP-PP-80-105, CCNY-HEP-79-10
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