

INSPIRE: Community Information Management for Particle Physics

Travis Brooks

SLAC

INSPIRE

Why am I here?

- Learn about JACoW
- Identify New Opportunities for Collaboration
 - From SLAC and INSPIRE side

- 1) INSPIRE past/present/future
- 2) Connections with JACoW
- 3) Questions

1) INSPIRE past/present/future*

2) Connections with JACoW

3) Questions

* Some slides from other INSPIRE talks (S. Mele – CERN)

HEP researchers write 10,000 papers a year

I'll talk about these papers

And how people **exchange** them

And find and read and cite them

And **publish** them

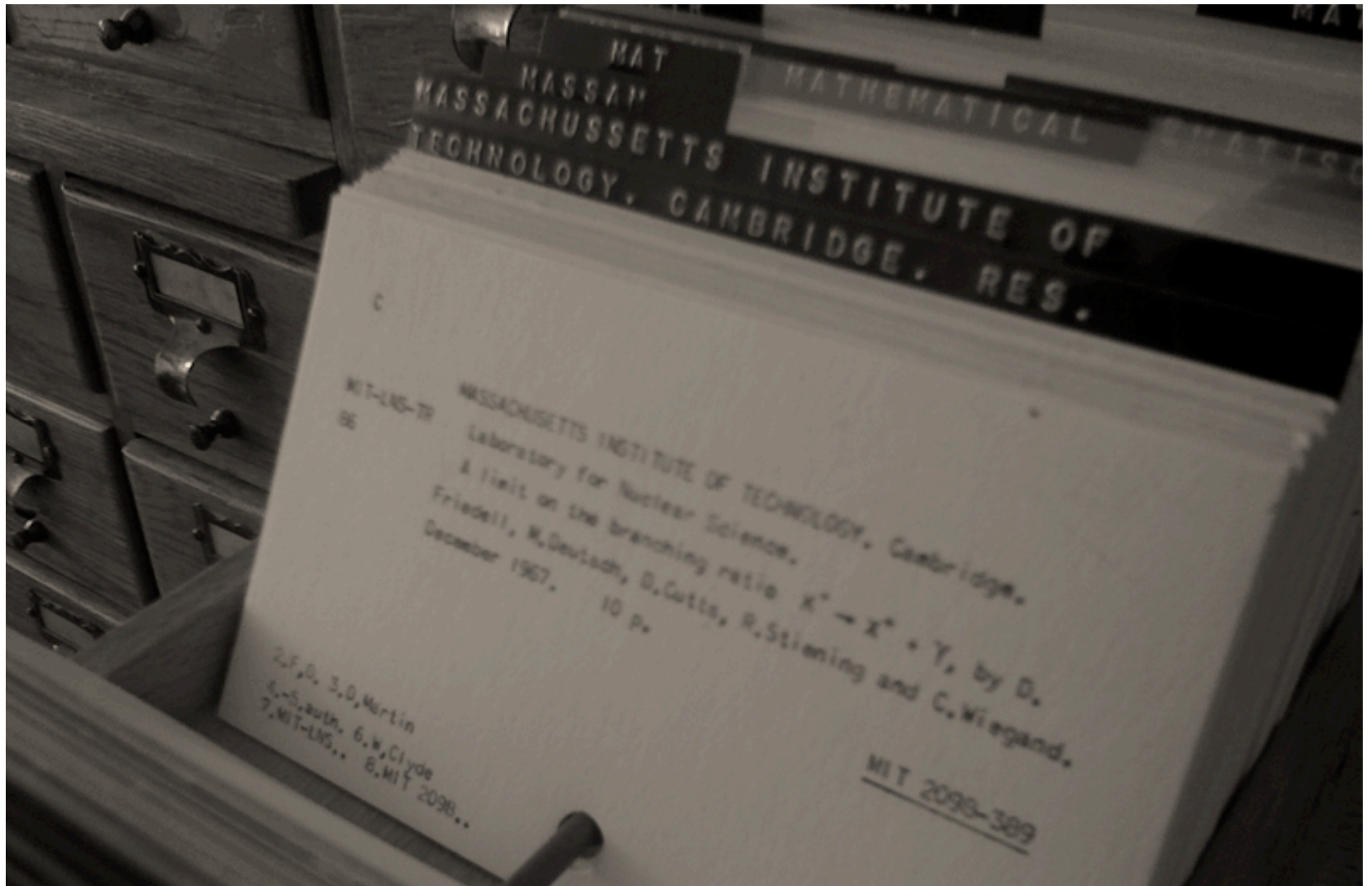
Let me tell you a **story**



Once upon a time HEP folks wrote papers...



...then went to the mailroom...



...libraries got and catalogued *preprints*...

...SLAC/Stanford library used computers...



...eventually HEP folks read preprints.





Can't we do it via e-mail?

(Paul Ginsparg)



arXiv is born (hep-th Aug '91; astro-ph Apr '92)



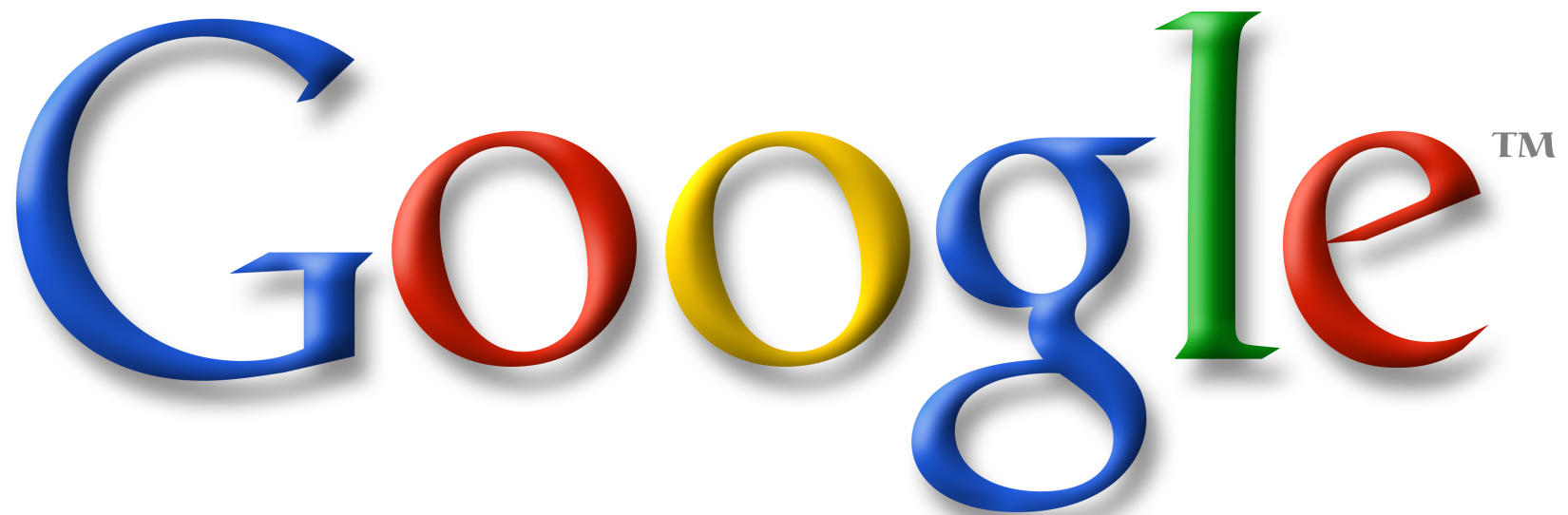
This man had an idea “vague but exciting”
(Tim Berners-Lee @CERN circa 1990)

Which was the first web site in the U.S. ?

Which was the first web site in the U.S. ?



Which was the first web site in the U.S. ?



Which was the first web site in the U.S. ?

The Facebook logo, consisting of the word "facebook" in white lowercase letters on a blue rectangular background, followed by a registered trademark symbol (®).

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SPIRES, the first web site in the U.S.



(And the first database on the web)

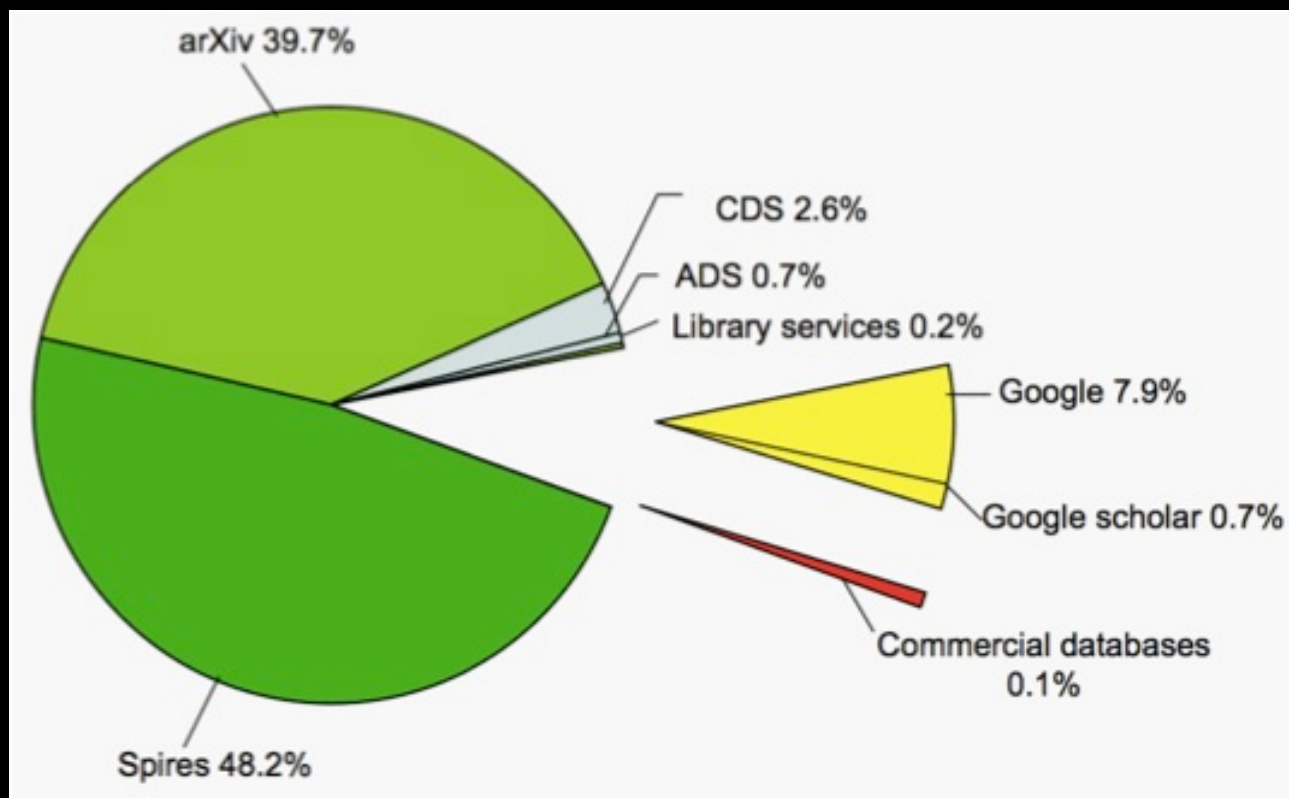
Successful **cyber-infrastructure** for
Scientific Communication in
High-Energy Physics

Successful **cyber-infrastructure** for
Scientific Communication in
High-Energy Physics

Like **JACoW** for Accelerator Physics...

Where do HEP scientists look for info?

Gentil-Beccot *et al.* arxiv:0804.2701



Survey of 2'000+ scientists (10% of community)

OA tools answer scientists' information needs

Google as proxy of arXiv, SPIRES, publishers

Still, a **clone** of the paper era

A photograph of a large, complex electronic control panel for a particle accelerator. The panel is filled with numerous buttons, switches, and a dense array of cables. A small display screen is visible in the center. The panel is mounted on a rack, and the background shows a blue wall with a grid pattern.

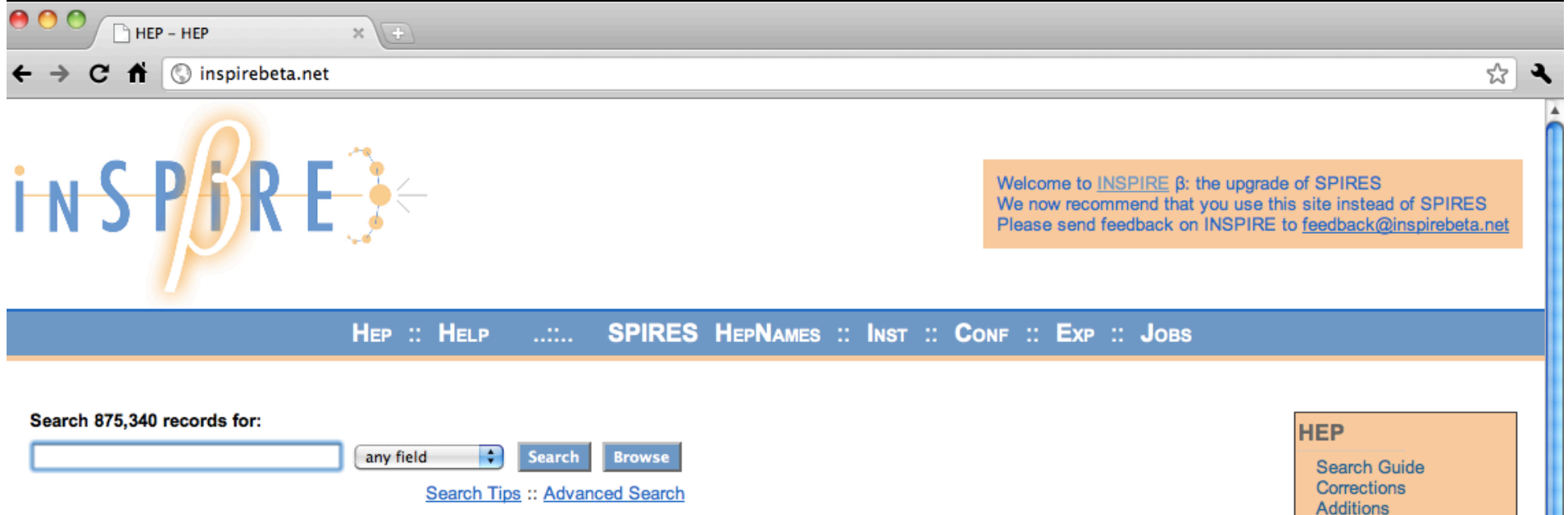
Enter INSPIRE

CERN, DESY, Fermilab, SLAC

What is it?

What does it do?

What will it do?



The screenshot shows a web browser window with the address bar displaying "inspirebeta.net". The page features the INSPIRE logo, which includes the word "INSPIRE" in blue and orange letters, with a stylized particle detector diagram to the right. A welcome message in an orange box states: "Welcome to INSPIRE β: the upgrade of SPIRES. We now recommend that you use this site instead of SPIRES. Please send feedback on INSPIRE to feedback@inspirebeta.net". A blue navigation bar contains links: "HEP :: HELP :: SPIRES HEPNAMES :: INST :: CONF :: EXP :: JOBS". Below this, a search section indicates "Search 875,340 records for:" followed by a search input field, a dropdown menu set to "any field", and "Search" and "Browse" buttons. Links for "Search Tips" and "Advanced Search" are provided. On the right, a box titled "HEP" contains links for "Search Guide", "Corrections", and "Additions".

HEP - HEP

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LAMP – Linux, Apache, MySQL, Python

<http://invenio-software.org>

Designed for scientific repositories with 0.2-10M records

Contributors at CERN, SLAC, NASA-ADS, other institutions (via git)

(Part of CDSware suite, with InDiCo)

Notable INSPIRE Features

- Author Profiles
 - Automatically disambiguated
 - Author claiming system (Coming Soon!)
- Objects other than papers
 - Talks
 - Figures
 - Data Files
- Increased Interaction with authors/end-users



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...AND A LITTLE MORE

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Eprint number (note the plots)

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Search words inside papers (Note: limited coverage, phrases coming soon)

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[1985 richter quark multiplicity](#)

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

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[citedby:author:ellis refersto:author:witten](#)

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fulltext



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Search collections:

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HEP

1 records found

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1. Search for the standard model Higgs boson at LEP.

[LEP Working Group for Higgs boson searches](#) and [ALEPH](#) and [DELPHI](#) and [L3](#) and [OPAL](#) Collaborations ([R. Barate et al.](#)). CERN-EP-2003-011. Mar 2003. 23

Published in **Phys.Lett. B565 (2003) 61-75**

e-Print: [hep-ex/0306033](#)

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Search for the standard model Higgs boson at LEP.

LEP Working Group for Higgs boson searches and ALEPH and DELPHI and L3 and OPAL Collaborations (R. Barate *et al.*) [Show all 1314 authors.](#)

Mar 2003

Phys.Lett. B565 (2003) 61-75
e-Print: [hep-ex/0306033](#)

Abstract: The four LEP collaborations, ALEPH, DELPHI, L3 and OPAL, have collected a total of 2461 pb⁻¹ of e⁺e⁻ collision data at centre-of-mass energies between 189 and 209 GeV. The data are used to search for the Standard Model Higgs boson. The search results of the four collaborations are combined and examined in a likelihood test for their consistency with two hypotheses: the background hypothesis and the signal plus background hypothesis. The corresponding confidences have been computed as functions of the hypothetical Higgs boson mass. A lower bound of 114.4 GeV/c² is established, at the 95% confidence level, on the mass of the Standard Model Higgs boson. The LEP data are also used to set upper bounds on the HZZ coupling for various assumptions concerning the decay of the Higgs boson.

Keyword(s): [INSPIRE: review: experimental results](#) | [electron positron: colliding beams](#) | [electron positron: annihilation](#) | [Higgs particle: search for](#) | [Higgs particle: neutral particle](#) | [Higgs particle: electroproduction](#) | [Z0: associated production](#) | [coupling: \(Higgs particle Z0\)](#) | [Higgs particle: decay modes](#) | [background](#) | [Higgs particle: mass](#) | [lower limit](#) | [experimental results](#) | [CERN LEP Stor](#) | [electron positron --> Higgs particle Z0](#) | [Higgs particle --> 2beauty](#) | [Higgs particle --> tau+ tau-](#) | [189-209 GeV-cms](#)

Record created 2003-05-21, last modified 2010-07-02

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[Citations \(993\)](#)

[Search for the standard model Higgs boson at LEP](#) - [Barate, R.](#) et al hep-ex/0306033 CERN-EP-2003-011

- [Broken symmetries, massless particles and gauge fields](#) - [Higgs, Peter W.](#)
- [Broken Symmetries and the Masses of Gauge Bosons](#) - [Higgs, Peter W.](#)
- [Spontaneous Symmetry Breakdown without Massless Bosons](#) - [Higgs, Peter W.](#)
- [Broken Symmetry and the Mass of Gauge Vector Mesons](#) - [Englert, F.](#) et al
- [Global Conservation Laws and Massless Particles](#) - [Guralnik, G.S.](#) et al
- [A Model of Leptons](#) - [Weinberg, Steven](#)
- [A Combination of preliminary electroweak measurements and constraints on the standard model](#) hep-ex/0212036 SLAC-R-643, CERN-EP-2002-091, LEPEWWG-2002-02, ALEPH-2002-042-PHYSIC-2002-018, DELPHI-2002-098-PHYS-927, CERN-L3-NOTE-2788, OPAL-PR-370
- [Observation of an excess in the search for the standard model Higgs boson at ALEPH](#) - [Barate, R.](#) et al hep-ex/0011045 CERN-EP-2000-138
- [Higgs candidates in e⁺ e⁻ interactions at s^{1/2} = 206.6-GeV](#) - [Acciarri, M.](#) et al hep-ex/0011043 CERN-EP-2000-140
- [Search for the standard model Higgs boson in e⁺ e⁻ collisions at s^{1/2} approximately = 192-GeV - 209-GeV](#) - [Abbiendi, G.](#) et al hep-ex/0101014 CERN-EP-2000-156
- [Search for the standard model Higgs boson at LEP in the year 2000](#) - [Abreu, P.](#) et al hep-ex/0102036 CERN-EP-2001-004
- [Final results of the searches for neutral Higgs bosons in e⁺ e⁻ collisions at s^{1/2} up to 209-GeV](#) - [Heister, A.](#) et al hep-ex/0201014 CERN-EP-2001-095
- [Final results from DELPHI on the searches for SM and MSSM neutral Higgs bosons](#) - [Abdallah, J.](#) et al hep-ex/0303013 CERN-EP-2003-008

Information References (34) Citations (993)

Search for the standard model Higgs boson at LEP - Barate, R. *et al* hep-ex/0306033 CERN-EP-2003-011

Cited by: 993 records

- (391) [Precision electroweak measurements on the Z resonance](#) - hep-ex/0509008 SLAC-R-774
- (332) [Physics interplay of the LHC and the ILC](#) - Weiglein, G. *et al* hep-ph/0410364 SLAC-PUB-10764, ANL-HEP-PR-04-108, CERN-PH-TH-2004-214, DCPT-04-134, DESY-04-206, IFIC-04-59, IISC-CHEP-13-04, IPPP-04-67, UB-ECM-PF-04-31, UCD-04-28, UCI-TR-2004-37
- (320) [Split supersymmetry](#) - Giudice, G.F. *et al* hep-ph/0406088 CERN-PH-TH-2004-100
- (301) [Expected Performance of the ATLAS Experiment - Detector, Trigger and Physics](#) - Aad, G. *et al* arXiv:0901.0512 [hep-ex]
- (297) [Search for neutral MSSM Higgs bosons at LEP](#) - Schael, S. *et al* hep-ex/0602042 CERN-PH-EP-2006-001

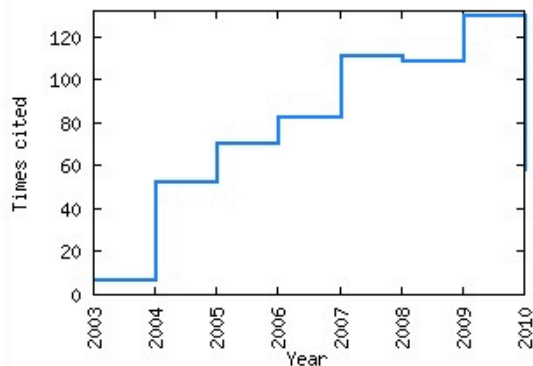
[more](#)

Co-cited with: 21049 records

- (168) [Supersymmetry, Supergravity and Particle Physics](#) - Nilles, Hans Peter UGVA-DPT-1983-12-412
- (161) [Review of Particle Physics](#) - Yao, W.-M. *et al*
- (158) [A Model of Leptons](#) - Weinberg, Steven
- (158) [Review of particle physics. Particle Data Group](#) - Eidelman, S. *et al*
- (151) [Search for neutral MSSM Higgs bosons at LEP](#) - Schael, S. *et al* hep-ex/0602042 CERN-PH-EP-2006-001

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Citation history:



Information

References (16)

Citations (7135)

[A Model of Leptons](#) - [Weinberg, Steven](#)

Cited by: 7135 records

- (6018) [CP Violation in the Renormalizable Theory of Weak Interaction](#) - [Kobayashi, Makoto](#) *et al* KUNS-242
- (3600) [Supersymmetry, Supergravity and Particle Physics](#) - [Nilles, Hans Peter](#) UGVA-DPT-1983-12-412
- (3491) [The Search for Supersymmetry: Probing Physics Beyond the Standard Model](#) - [Haber, Howard E.](#) *et al* UM-HE-TH-83-17, SCIPP-85-47
- (3225) [Unity of All Elementary Particle Forces](#) - [Georgi, H.](#) *et al*
- (3178) [Review of particle physics. Particle Data Group](#) - [Barnett, R. Michael](#) *et al*

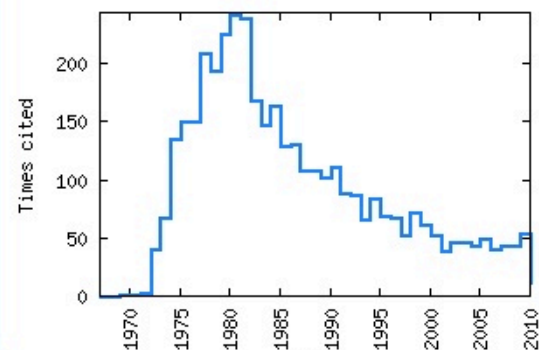
[more](#)

Co-cited with: 60553 records

- (3668) [Partial Symmetries of Weak Interactions](#) - [Glashow, S.L.](#)
- (2079) [Weak Interactions with Lepton-Hadron Symmetry](#) - [Glashow, S.L.](#) *et al*
- (1429) [CP Violation in the Renormalizable Theory of Weak Interaction](#) - [Kobayashi, Makoto](#) *et al* KUNS-242
- (1039) [Broken symmetries, massless particles and gauge fields](#) - [Higgs, Peter W.](#)
- (867) [Unity of All Elementary Particle Forces](#) - [Georgi, H.](#) *et al*

[more](#)

Citation history:



Weinberg, Steven

Papers:

[All papers \(220\)](#)
[Published \(156\)](#)
[Review \(23\)](#)
[Conference \(20\)](#)
[Introductory \(16\)](#)
[Book \(11\)](#)
[Lectures \(8\)](#)

Affiliations:

[Texas U. \(100\)](#)
[Harvard U. \(51\)](#)
[MIT, LNS \(26\)](#)
[UC, Berkeley \(20\)](#)
[unknown \(12\)](#)
[Harvard-Smithsonian Ctr. Astrophys. \(8\)](#)
[Columbia U. \(4\)](#)
[Stanford U., Phys. Dept. \(3\)](#)
[Princeton U. \(2\)](#)
[Imperial Coll., London \(2\)](#)
[LLNL, Livermore \(1\)](#)
[Stanford U., ITP \(1\)](#)
[MIT \(1\)](#)

Frequent keywords:

[spontaneous symmetry breaking \(31\)](#)
[gravitation \(21\)](#)
[renormalization \(21\)](#)
[unified field theory \(20\)](#)
[quantum chromodynamics \(17\)](#)
[S-matrix \(16\)](#)
[FIELD THEORY: HIGHER-DIMENSIONAL \(15\)](#)
[strong interaction \(15\)](#)
[electroweak interaction \(14\)](#)
[field theory: scalar \(14\)](#)

Frequent co-authors:

[Glashow, S.L. \(3\)](#)
[Schnitzer, Howard J. \(3\)](#)
[Bjorken, J.D. \(2\)](#)
[Flauger, Raphael \(2\)](#)
[Gerstein, I.S. \(2\)](#)
[Hall, Lawrence J. \(2\)](#)
[Jackiw, R. \(2\)](#)
[Lane, Kenneth D. \(2\)](#)
[Lee, Benjamin W. \(2\)](#)

Citations:

Citation summary results

	All papers	Published only
Total number of citable papers analyzed:	170	156
Total number of citations:	47,121	46,594
Average citations per paper:	277.2	298.7
Breakdown of papers by citations:		
Renowned papers (500+)	25	25
Famous papers (250-499)	20	20
Very well-known papers (100-249)	45	43
Well-known papers (50-99)	18	17
Known papers (10-49)	32	28
Less known papers (1-9)	20	16
Unknown papers (0)	10	7

Information

References (17)

Citations (1)

Plots

Diffractive W and Z Production at the Fermilab Tevatron.

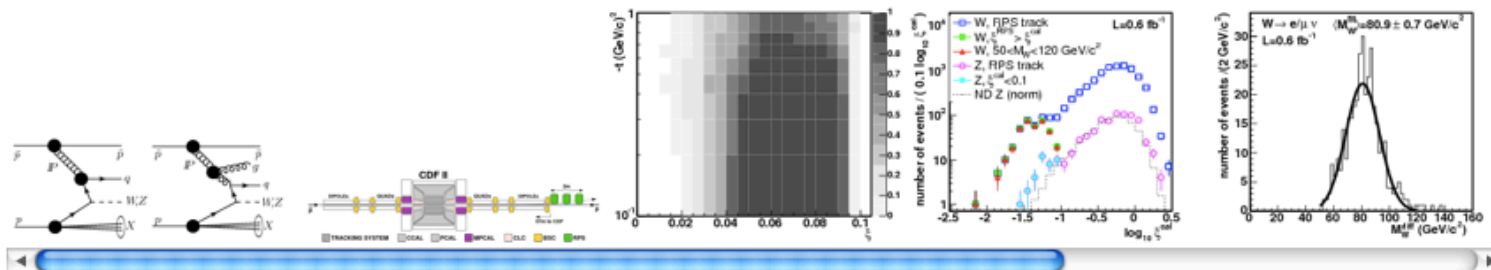
CDF Collaboration (T. Aaltonen (Helsinki Inst. of Phys.) *et al.*) [Show all 514 authors.](#)

Jul 2010

Submitted to: *Phys.Rev.D*
e-Print: [arXiv:1007.5048 \[hep-ex\]](#)

Abstract: We report on a measurement of the fraction of events with a W or Z boson produced diffractively in antiproton-proton collisions at a center of mass energy of 1.96 TeV, using data from 0.6 inverse femtobarns of integrated luminosity collected with the CDF-II detector equipped with a Roman-pot spectrometer that detects the antiproton (pbar) from $p\bar{p} \rightarrow p\bar{p} + [X+W/Z]$. We find that $(0.97 \pm 0.11)\%$ of Ws and $(0.85 \pm 0.22)\%$ of Zs are produced diffractively in a region of (anti)proton fractional momentum loss (ξ) of $0.03 < \xi < 0.10$ and 4-momentum transferred squared t of $-1 < t < 0$ (GeV/c^2). We also report on searches for W and Z production in double Pomeron exchange, $p\bar{p} \rightarrow p + [X+W/Z] + p$, and on exclusive Z production, $p\bar{p} \rightarrow p\bar{p} + Z + p$. No signal is seen above background for these processes, and comparisons are made with expectations.

Keyword(s): INSPIRE: [W: hadroproduction](#) | [Z0: hadroproduction](#) | [pomeron: exchange](#) | [diffraction](#) | [Batavia](#)
[TEVATRON Coll](#) | [CDF](#)
Author supplied: [diffraction](#)



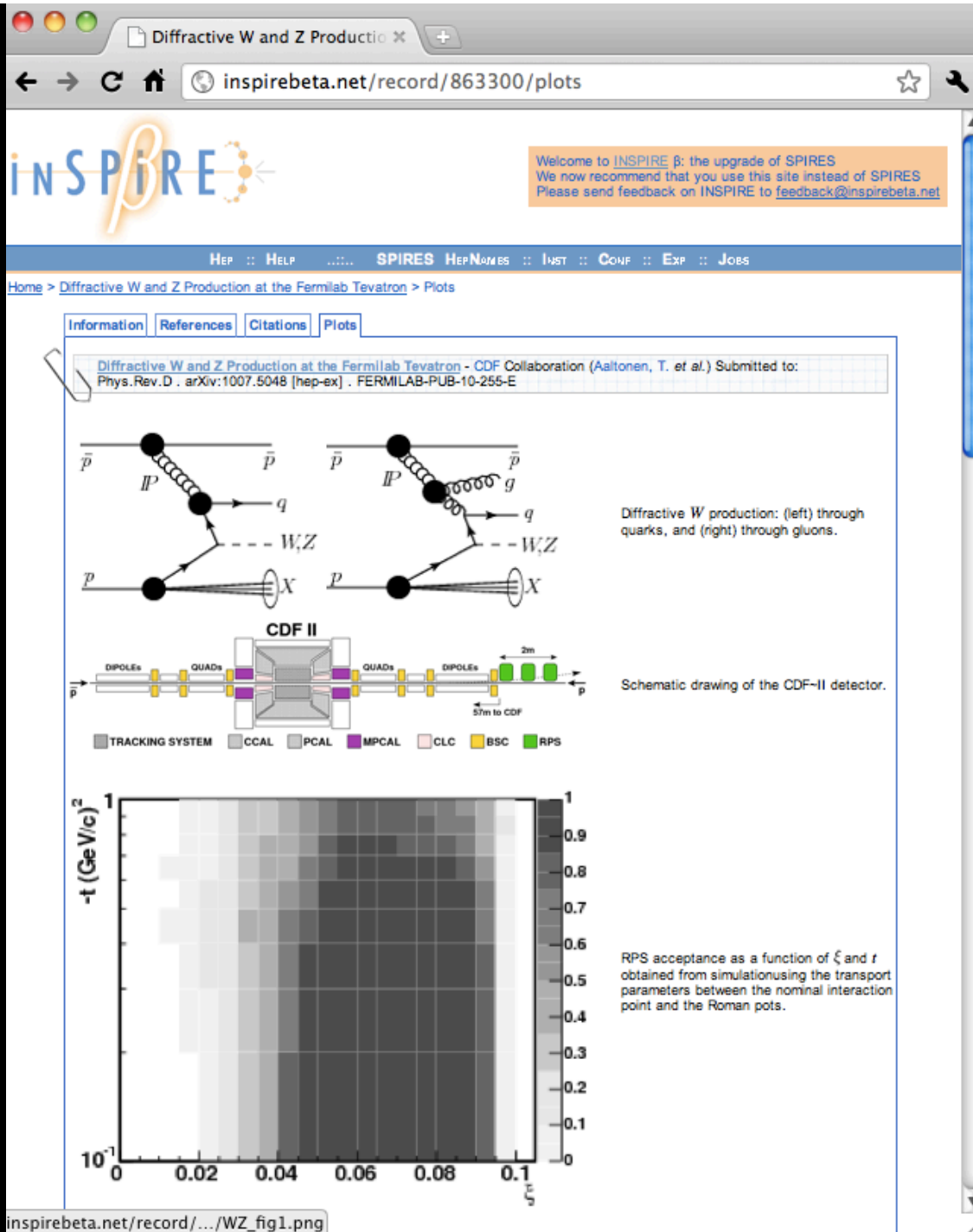
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Full-text search

qcd monte carlo - Search Results

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Sort by: latest first [desc.] - or rank by - [25 results] [single list] [HTML brief]

Display results: Output format:

HEP 13 records found Search took 0.03 seconds.

☐ 1. **Quantum chromodynamics on the lattice.**
Christof Gatttringer, Christian B. Lang (Graz U.). 2010. 211 pp.
Published in **Lect.Notes Phys. 788 (2010) 1-211**
[References](#) | [BibTeX](#) | [LaTeX\(US\)](#) | [LaTeX\(EU\)](#) | [EndNote](#) | [Journal Server](#)
Snippets courtesy of Springer
... which allows for both theoretical understanding and computational analysis. Lattice **QCD** has become a standard tool in elementary particle physics. As of an advanced student for a first reading on lattice **QCD**. This imaginary student brings as a prerequisite knowledge of higher and we had to make some painful choices. We discuss **QCD** but omit most other lattice field theory applications like scalar address all ongoing activities, in particular concerning the role of **QCD** in electroweak theory. Subjects like glueballs, topological excitations, and approaches **QCD** on the lattice – a first look
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☐ 2. **Cosmology of neutrinos and extra light particles after WMAP3.**
Marco Cirelli (Yale U.), Alessandro Strumia (Pisa U. & INFN, Pisa). IFUP-TH-2006-16. Jul 2006. 16 pp.
Published in **JCAP 0612 (2006) 013**
e-Print: [astro-ph/0607086](#)
[References](#) | [BibTeX](#) | [LaTeX\(US\)](#) | [LaTeX\(EU\)](#) | [EndNote](#)
... light colored particles typically form hadrons not lighter than the **QCD** scale; one can however imagine a colored scalar with a 'tachionic' bare squared mass, fine tuned to almost cancel

Who do we know?

- HEPNames: 80K entries
- Affiliation history for 20K researchers
- Emails for 25K
- 800K papers with authors and (standardized) affiliations
- 5M 'signatures' on papers
- 350K unique name strings

Who

- Automatic Disambiguation
- Henning Weiler - PhD student@CERN
- On 963 documents, 21 real authors could be identified for the query "Chen, G".
- 22 orphans remain
- 98% identified

Author Details (#109)

NAME HISTORY

- Ellis, Stephen D. (57 Papers)
- Ellis, S.D. (54 Papers)
- Ellis, S. (3 Papers)
- Ellis, Stephen (1 Paper)

AFFILIATION HISTORY (10 DISTINCT)

- 2009-12 - Unknown (as Ellis, Stephen D.)
- 2009-05 - Washington U., Seattle (as Ellis, Stephen D.)
- 2007-12 - Washington U., Seattle (as Ellis, S.D.)
- 2005-09 - Washington U., Seattle (as Ellis, S.D.)
- 2005-04 - Washington U., Seattle (as Ellis, Stephen D.)

Author Details (#115)

NAME HISTORY

- Ellis, Simon C. (8 Papers)
- Ellis, S.C. (7 Papers)
- Ellis, S. (1 Paper)

AFFILIATION HISTORY (2 DISTINCT)

- 2009-10 - Unknown (as Ellis, S.C.)
- 2008-01 - Unknown (as Ellis, S.C.)
- 2006-02 - Anglo-Australian Observ. (as Ellis, Simon C.)
- 2005-04 - Unknown (as Ellis, S.C.)
- 2001-10 - Unknown (as Ellis, S.C.)
- 2000-11 - Unknown (as Ellis, S.)

- [Large Transverse Momentum Phenomena: An Experimental and Theoretical Review](#) (as "Ellis, S.D.", p: 64.94%)
- [Implications of parton model concepts for large transverse momentum production of hadrons](#) (as "Ellis, S.D.", p: 75.08%)
- [Inclusive reactions, finite-energy sum rules and reggeon-particle scattering](#) (as "Ellis, S.D.", p: 70.40%)
- [Decays of the Upsilon' and the Structure of the Resonances at 10-GeV](#) (as "Ellis, Stephen D.", p: 64.19%)
- [Jets in hadron-hadron collisions](#) (as "Ellis, S.D.", p: 66.79%)

- [The K band luminosity function of high redshift clusters](#) (as "Ellis, S.C.", p: 70.03%)
- [The colour-magnitude relations of clj1226.9+3332, a massive cluster of galaxies at z=0.89](#) (as "Ellis, Simon C.", p: 74.05%)
- [Characterization and on-sky demonstration of an integrated photonic spectrograph for astronomy](#) (as "Ellis, S.C.", p: 70.03%)
- [The x-ray evolution of clusters of galaxies to z=0.9](#) (as "Ellis, S.", p: 78.87%)
- [The case for OH suppression at near-infrared wavelengths](#) (as "Ellis, S.C.", p: 70.03%)

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2) Connections with JACoW

3) Questions

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 - Starting with 1st PAC 1965
- ~25,000 Authors
- ~60 Conferences

Author Profiles

- ORCID <http://orcid.org>
 - Publishers, Societies, Repositories, Universities, Others
 - Global author identifiers
 - INSPIRE sits on Board of Directors and Technical Working Group
 - Ensure Proper Attribution in Broad landscape for our community
- Projects within related disciplines Astro <-> HEP
HEP <-> Accelerator

Technical Opportunities

INSPIRE Strengths	INSPIRE Needs
<ul style="list-style-type: none">- Central Repository- Search- Author Disambiguation- Rich Metadata	<ul style="list-style-type: none">- Ingestion Tools for Talks- Conference Citation Tools- User Interface Design- Back Office Tools

Action Items

- Metadata exchange
 - Scripts From Volker (inspire.xml) run for every conference
- Profile Information
 - Add author ID to scripts
 - Use to match profiles
- Technical Collaboration
 - Keep eyes open for potential to share code/strategies/expertise

- 1) INSPIRE past/present/future
- 2) Connections with JACoW
- 3) Questions