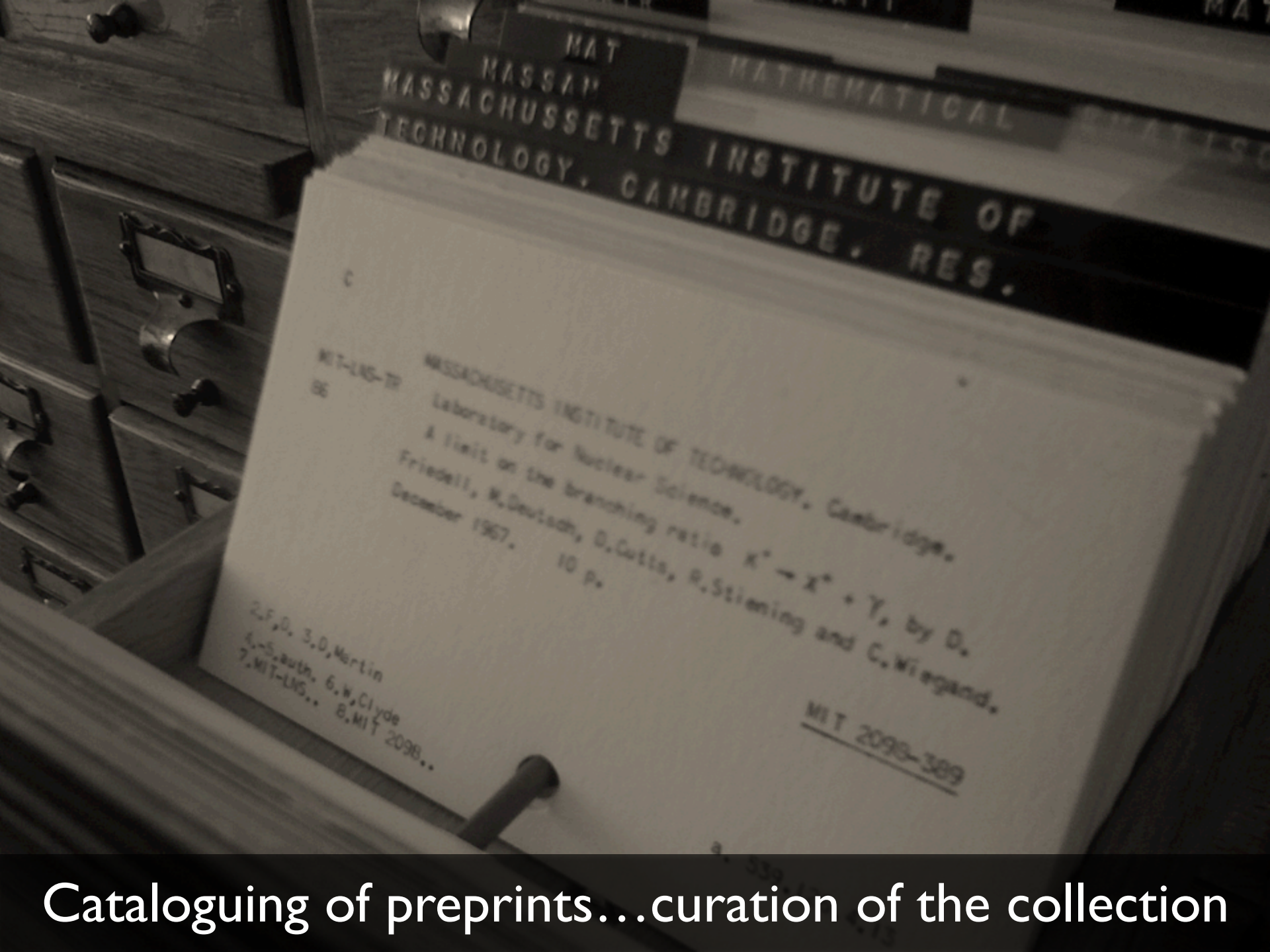
DPHEP Workshop on "the cost of curation" lessons from INSPIRE

Sünje Dallmeier-Tiessen
Salvatore Mele
CERN – Scientific Information Service

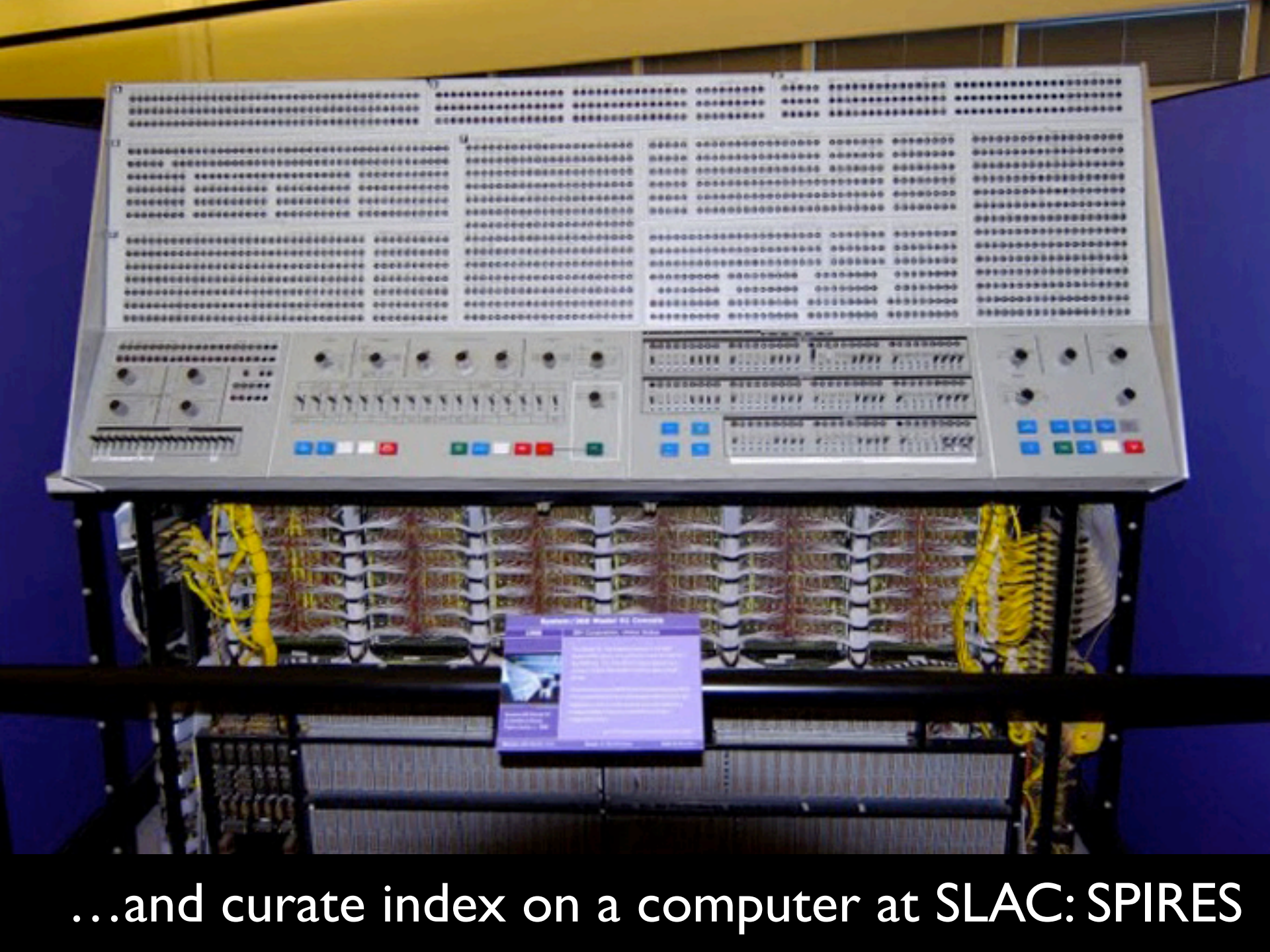
A preamble on “curation”

CERN Open Access Preprint Repository



Cataloguing of preprints…curation of the collection

…disambiguating authors, semantic tagging, resolving citations, marking up conference and teams…



…and curate index on a computer at SLAC: SPIRES

DATE: FRI, 13 DEC 91 17:55:53 GMT+0100
FROM: TIMBL@NXOC01.CERN.CH (TIM BERNERS-LEE)
SUBJECT: WWW TO SPIRES ON SLACVM - EXPERIMENTAL
TO: WWW-INTEREST@CERNVAX.CERN.CH, WWW-TALK@CERNVAX.CERN.CH

THERE IS AN EXPERIMENTAL W3 SERVER FOR THE SPIRES HIGH ENERGY PHYSICS PREPRINT DATABASE, THANKS TO TERRY HUNG, PAUL KUNZ AND LOUISE ADDIS OF SLAC. IT'S ONLY JUST BEEN PUT UP, SO DON'T EXPECT PERFECTION. WITH THE W3 LINE MODE BROWSER, FOLLOW A LINK TO IT FROM OUR HOME PAGE,

- TIM

PAUL KUNZ WROTE A FEW DAYS AGO:-

"THE SLAC LIBRARY MAINTAINER OF SPIRES DATABASES, LOUISE ADDIS, IS ABSOLUTELY DELIGHTED. SHE WILL ASK FOR A PERMANENT VM SERVICE MACHINE AND FINISH OFF THE POLISHING. THINGS ARE REALLY MOVING NOW."

INSPIRE

- Successor to SPIRES
- Transfer to new digital library software: Invenio
  - Plus articles full-text access/search
  - Plus author-centric services
  - Plus some data linkage (and hosting) services

- INSPIRE today supports DPHEP level 1 and 2

Cost of curation

- Lots of experience with curation, across labs
- Experimenting with different approaches (automated vs. manual vs. crowdsourcing)

Cost centers

- Technology – Platform
  - Migration
  - Maintenance and upgrade
- Technology – Curation tools and workflows
  - Design, develop, maintain, replace
  - Optimize for existing/limited/decreasing manpower
  - Crowdsourced tools (access vs usability vs trust)
- Human:
  - Curators/editors staff/students
  - Crowdsourcing

Curation

- Selection of content
  - **Core content: HEP**

    plus material strongly related to high energy physics, from the following areas: Astrophysics, gravitation and cosmology, nuclear physics, other border areas such as condensed matter and atomic physics, and other selected areas
- Ingestion of different contents
  - Metadata standards/cleanup

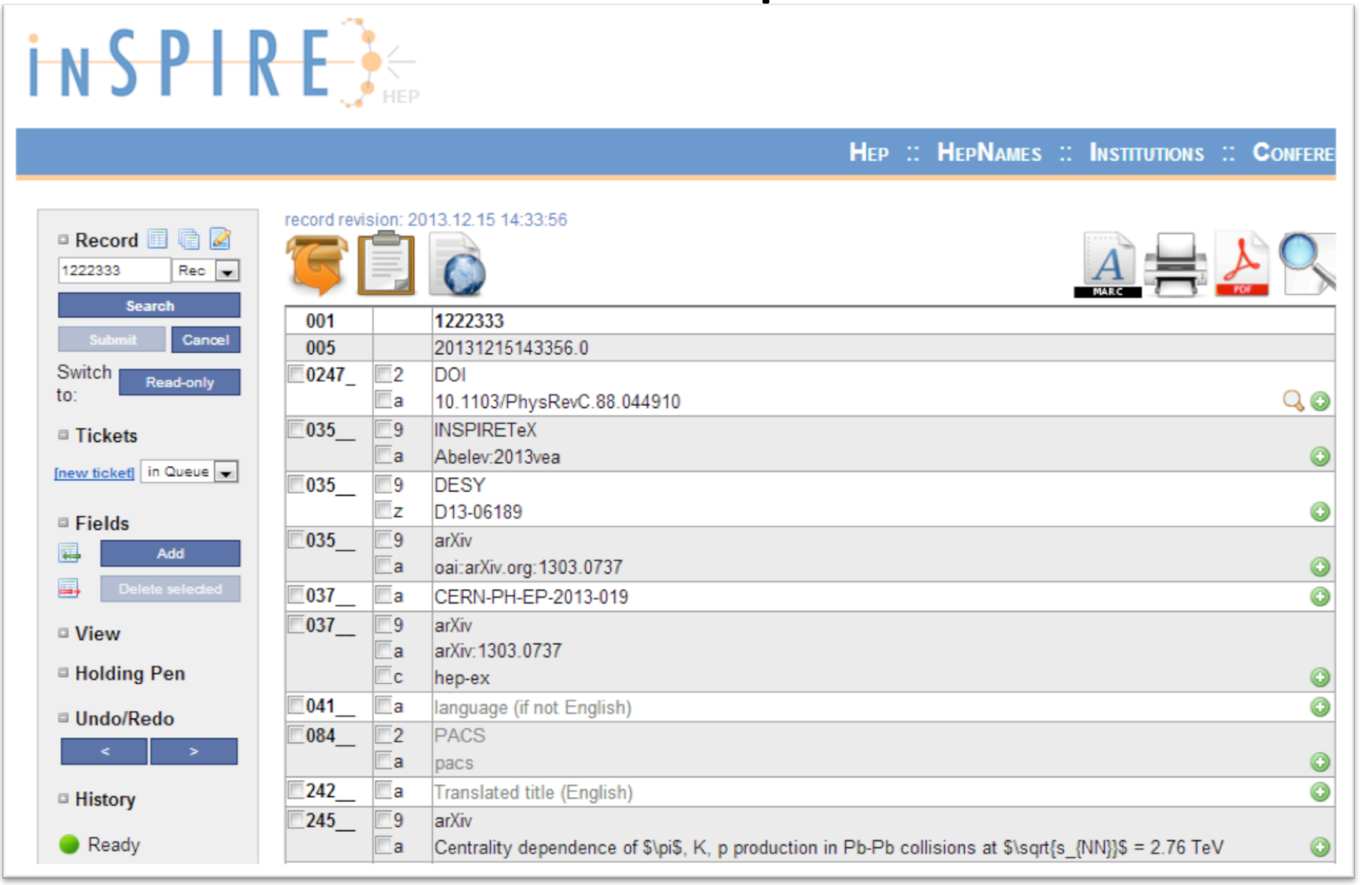
Curation

- References and citations: historical bread ‘n’ butter and main burden
  - Extracted automatically, with improving tools
  - Manually cleaned/corrected
  - Users expect high level of (free!) service
  - Evaluation/jobs depend on it…
- Authors: automated parts and curator tasks
  - No standard tools to build on
  - Design/iterate algorithmic clustering, curation and crowd-sourcing apps
- Data: mainly manual curation/integration.
  - No automated ingestion tools
  - Multiple requests of “à la carte” linkage (HEPData, figshare, dataverse, GitHub)

Technology

- New tools for curation needed
  - Create the tools
  - Maintain and continuously update the tools
- Main tools:
  - Metadata cleaning and updating
  - Research data curation
  - Author curation

Curation tools: publications



Curation tools: publications and data

	a	Centrality dependence of {\pi}, K, p production in Pb-Pb collisions at sqrt(sNN) = 2.76 TeV
260__	c	2013-10-15
269__	c	2013-03-04
300__	a	42
500__	9	arXiv
	a	42 pages, 17 figures, 6 tables, authors from page 36 to page 39. Version 2: minor wording updates after referee report; corrected error in the <pt> uncertainty evaluation
520__	9	arXiv
	a	In this paper measurements are presented of $\pi^\pm, K^\pm$, p and $\bar p$ production at mid-rapidity (|y| < 0.5), in Pb–Pb collisions at $\sqrt{s_{NN}}$ = 2.76 TeV as a function of centrality. The measurement covers the transverse momentum (p_T) range from 100, 200, 300 MeV/c up to 3, 3, 4.6 GeV/c, for π, K, and p respectively. The measured p_T distributions and yields are compared to expectations based on hydrodynamic, thermal and recombination models. The spectral shapes of central collisions show a stronger radial flow than measured at lower energies, which can be described in hydrodynamic models. In peripheral collisions, the p_T distributions are not well reproduced by hydrodynamic models. Ratios of integrated particle yields are found to be nearly independent of centrality. The yield of protons normalized to pions is a factor ~ 1.5 lower than the expectation from thermal models.
520__	9	HEPDATA
	a	abstract
	h	CERN-LHC. Measurements of charged pion, kaon and (anti)proton production at mid-rapidity in Pb-Pb collisions at sqrt(sNN) = 2.76 TeV recorded in the autumn of 2010 as a function of centrality. The measurements cover the transverse momentum (pT) range from 100 MeV to 3 GeV for pions, 200 MeV to 3 GeV for kaons, and 300 MeV to 4.6 GeV for (anti)protons. These data extend previous

Curation of “data”

Curating data – an example

http://inspirehep.net/search?ln=en&p=find+cn+atlas+and+520%3Ahepdata&of=hb&action_search=Search

Measurements of Higgs boson production and couplings in diboson final states with the ATLAS detector at the LHC

ATLAS Collaboration (Georges Aad (Freiburg U.) *et al.*) Show all 2923 authors

Jul 4, 2013 - 38 pages

Phys.Lett. B (2013)
DOI: 10.1016/j.physletb.2013.08.010
CERN-PH-EP-2013-103
e-Print: arXiv:1307.1427 [hep-ex] | PDF
Experiment: CERN-LHC-ATLAS

Abstract: Measurements are presented of production properties and couplings of the recently discovered Higgs boson using the decays into boson pairs, $H \to \gamma\gamma, H \to ZZ* \to 4l$ and $H \to WW* \to l\nu l\nu$. The results are based on the complete pp collision data sample recorded by the ATLAS experiment at the CERN Large Hadron Collider at centre-of-mass energies of $\sqrt{s}$=7 and $\sqrt{s}$=8 TeV, corresponding to an integrated luminosity of about 25 fb^{-1}. Evidence for Higgs boson production through vector-boson fusion is reported. Results of combined fits probing Higgs boson couplings to fermions and bosons, as well as anomalous contributions to loop-induced production and decay modes, are presented. All measurements are consistent with expectations for the Standard Model Higgs boson.

Note: 23 pages plus author list (38 pages total), 13 figures, 10 tables, submitted to Physics Letters B All figures including auxiliary figures are available at http://atlas.web.cern.ch/Atlas/GROUPS/PHYSICS/PAPERS/HIGG-2013-02/
Keyword(s): INSPIRE: * Automatic Keywords * | Higgs particle: production | Higgs particle: coupling | vector boson: fusion | p p: scattering | CERN LHC Coll | ATLAS | photon photon | decay modes | CERN Lab | lepton+ | lepton

Measurements of Higgs boson production and couplings in diboson final states with the ATLAS detector at the LHC - ATLAS Collaboration (Aad, Georges *et al.*) Phys.Lett. B (2013) arXiv:1307.1427 [hep-ex] CERN-PH-EP-2013-103

THIS DATA COMES FROM DURHAM HEPDATA PROJECT

SUMMARY:

CERN-LHC. Measurements of the cross-section times branching ratio for a standard model-like Higgs boson. The results are based on the complete pp collision data sample recorded by the ATLAS experiment at the CERN Large Hadron Collider at centre-of-mass energies of √s = 7 TeV and √s = 8 TeV, corresponding to an integrated luminosity of about 25 fb−1.

DATASETS:

Description: -2 log Likelihood for the H → γγ channel in the (μ_ggF+ttH * B/BSM, μ_VBF+VH * B/BSM) plane for a Higgs boson mass mH = 125.5 GeV.

Go to the record

Description: -2 log Likelihood for the H→ ZZ*→ 4l channel in the (μ_ggF+ttH * B/BSM, μ_VBF+VH * B/BSM) plane for a Higgs boson mass mH = 125.5 GeV.

Go to the record

Description: -2 log Likelihood for the H→ WW*→ lνlν channel in the (μ_ggF+ttH * B/BSM, μ_VBF+VH * B/BSM) plane for a Higgs boson mass mH = 125.5 GeV.

Go to the record

Data from Figure 7 from: Measurements of Higgs boson production and couplings in diboson final states with the ATLAS detector at the LHC

ATLAS Collaboration (Aad, Georges (Freiburg U.) [...]) *Show all 2923 authors*

Cite as: ATLAS Collaboration (2013) HepData, http://doi.org/10.7484/INSPIREHEP.DATA.RF5P.6M3K

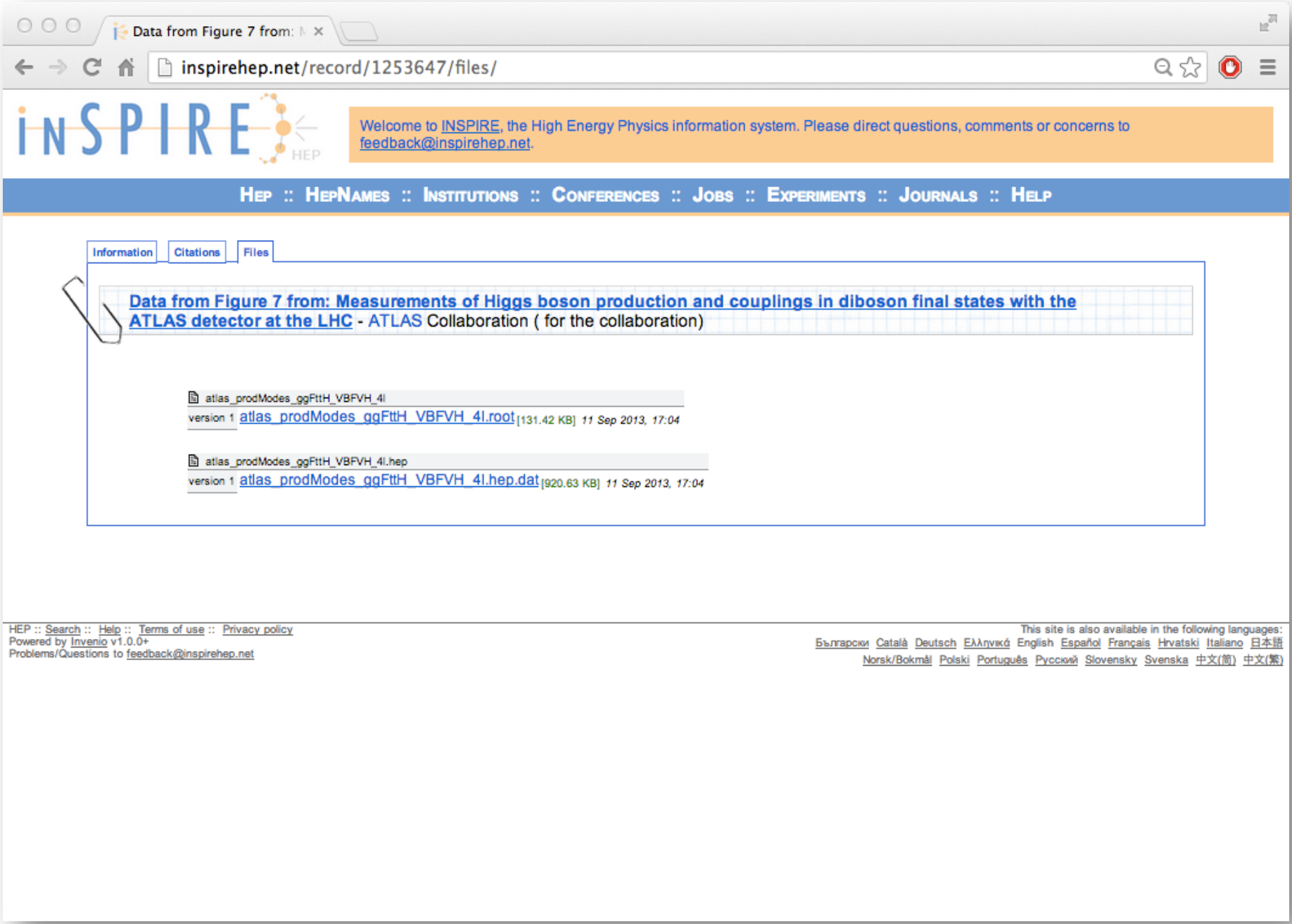
Description: -2 log Likelihood for the H→ ZZ*→ 4l channel in the (μ_ggF+ttH * B/BSM, μ_VBF+VH * B/BSM) plane for a Higgs boson mass mH = 125.5 GeV.

Preview not available

Note: * Temporary entry *

This dataset complements the following publication:
Measurements of Higgs boson production and couplings in diboson final states with the ATLAS detector at the LHC

Record created 2013-09-11, last modified 2013-09-11


Data from Figure 7 from: M
inspirehep.net/record/1253647/files/
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Information
Citations
Files
Data from Figure 7 from: Measurements of Higgs boson production and couplings in diboson final states with the ATLAS detector at the LHC - ATLAS Collaboration (for the collaboration)
atlas_prodModes_ggFttH_VBFVH_4l
version 1 atlas_prodModes_ggFttH_VBFVH_4l.root [131.42 KB] 11 Sep 2013, 17:04
atlas_prodModes_ggFttH_VBFVH_4l.hep
version 1 atlas_prodModes_ggFttH_VBFVH_4l.hep.dat [920.63 KB] 11 Sep 2013, 17:04
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Norsk/Bokmål Polski Português Русский Slovensky Svenska 中文(简) 中文(繁)

atlas_prodModes_ggFttH_VBFVH_4l.hep.dat

```
Path:HepData/ggFttH_VBFVH_4l
profiled Likelihood
x: #mu^{f}_{ggF+ttH}
y: #mu^{f}_{VBF+VH}
z: -2 ln (#Lambda)
x       y       z
1.32000000e-01  -1.48562500e+00 3.35528857e+01
1.96000000e-01  -1.48562500e+00 3.35528857e+01
2.60000000e-01  -1.48562500e+00 3.35528857e+01
3.24000000e-01  -1.48562500e+00 3.35528857e+01
3.88000000e-01  -1.48562500e+00 3.35528857e+01
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5.16000000e-01  -1.48562500e+00 3.35528857e+01
5.80000000e-01  -1.48562500e+00 3.35528857e+01
6.44000000e-01  -1.48562500e+00 3.35528857e+01
7.08000000e-01  -1.48562500e+00 3.35528857e+01
7.72000000e-01  -1.48562500e+00 3.35528857e+01
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9.64000000e-01  -1.48562500e+00 3.35528857e+01
1.02800000e+00  -1.48562500e+00 3.35528857e+01
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1.54000000e+00  -1.48562500e+00 3.35528857e+01
1.60400000e+00  -1.48562500e+00 3.35528857e+01
1.66800000e+00  -1.48562500e+00 3.35528857e+01
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```

Data from Figure 7 from: Measurements of Higgs boson production and couplings in diboson final states with the ATLAS detector at the LHC - ATLAS Collaboration (for the collaboration)

Cited by: 1 records

(2) **On the presentation of the LHC Higgs Results** - Boudjema, F. *et al.* arXiv:1307.5865 [hep-ph]

more

.. of which self-citations: 0 records

Co-cited with: 55 records

(1) **Higgs fits preference for suppressed down-type couplings: Implications for supersymmetry** - Azatov, Aleksandr *et al.* Phys.Rev. D86 (2012) 075033 arXiv:1206.1058 [hep-ph]

(1) **Model-Independent Bounds on a Light Higgs** - Azatov, Aleksandr *et al.* JHEP 1204 (2012) 127, Erratum-ibid. 1304 (2013) 140 arXiv:1202.3415 [hep-ph]

(1) **Updated measurements of the Higgs boson at 125 GeV in the two photon decay channel** - CMS Collaboration CMS-PAS-HIG-13-001

(1) **Global Analysis of the Higgs Candidate with Mass ~ 125 GeV** - Ellis, John *et al.* JHEP 1209 (2012) 123 arXiv:1207.1693 [hep-ph] KCL-PH-TH-2012-28, LCTS-2012-14, CERN-PH-TH-2012-192

(1) **Searches for New Physics: Les Houches Recommendations for the Presentation of LHC Results** - Kraml, S. *et al.* Eur.Phys.J. C72 (2012) 1976 arXiv:1203.2489 [hep-ph] FERMILAB-PUB-12-887-T

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Citation Log:

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Author centric view

INSPIRE HEP

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Cranmer, Kyle S.

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Publications list

Publications in INSPIRE:

1. Search for long-lived stopped R-hadrons decaying out-of-time with pp collisions using the ATLAS detector
2. Measurement of the mass difference between top and anti-top quarks in pp collisions at $\sqrt{s}$ = 7 TeV using the ATLAS detector
3. Search for charginos nearly mass-degenerate with the lightest neutralino based on a disappearing-track signature in pp collisions at $\sqrt{s}$ = 8 TeV with the ATLAS detector
4. Search for dark matter in events with a hadronically decaying W or Z boson and missing transverse momentum in pp collisions at $\sqrt{s}$=8 TeV with the ATLAS detector
5. Search for new phenomena in photon+jet events collected in proton–proton collisions at $\sqrt{s}$ = 8 TeV with the ATLAS detector
6. Search for microscopic black holes in a like-sign dimuon final state using large track multiplicity with the ATLAS detector
7. Search for direct third-generation squark pair production in final states with missing transverse momentum and two b-jets in $\sqrt{s}$=8 TeV pp collisions with the ATLAS detector

Citations (from papers in INSPIRE)

Citations summary

Generated on 2013-11-01

416 papers found, 406 of them citeable (published or arXiv)

Citation summary results	Citeable papers	Published only
Total number of papers analyzed:	406	348
Total number of citations:	27,502	25,605
Average citations per paper:	67.7	73.6
Breakdown of papers by citations:		
Renowned papers (500+)	7	6
Famous papers (250-499)	8	8
Very well-known papers (100-249)	36	34
Well-known papers (50-99)	57	57
Known papers (10-49)	203	196
Less known papers (1-9)	74	45
Unknown papers (0)	21	2
h_{HEP} index [?]	72	70

See additional metrics

Exclude self-citations or RPP

Warning: The citation search should be used and interpreted with great care. Read the fine print

HepNames data

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[Author Profile] [Google] [Students] [arXiv] [ADS]

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URL: http://twitter.com/KyleCranmer
Field: HEP-EX, HEP-PH, PHYSICS
Experiment: FNAL-E-0830, CERN-LHC-ATLAS, CERN-LEP-ALEPH, FNAL-TEV-CDF
Author Profile: K.S.Cranmer.1
Inspire ID: INSPIRE-00074922

Institutional History:

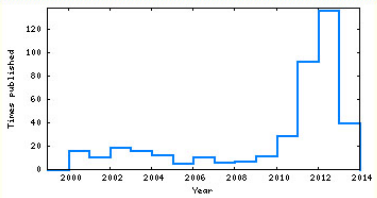
Institution	Rank	Start Date	End Date
New York U.	SENIOR	2007	
Brookhaven	PD	2005	2007
Wisconsin U., Madison	PHD	1999	2005
Rice U.	UG	1995	1999

UPDATE

Documentos:

	All papers	Single authored
All papers	416	10
Book	0	0
ConferencePaper	26	8
Introductory	0	0
Lectures	0	0
Published	348	2
Review	5	0
Thesis	1	1
Proceedings	1	0

Publications per year



Variantes del nombre

Cranmer, Kyle S. (8)
Cranmer, Kyle S (1)
Cranmer, Kyle (272)
Cranmer, K.S. (2)
Cranmer, K. (133)

Afiliaciones

New York U. (290)
Wisconsin U., Madison (60)
Tsinghua U., Beijing (12)
Brookhaven (6)
New York U., CCPP (5)
New York University (1)
CERN (1)
Washington U., Seattle (1)
City Coll., N.Y. (1)
NYU (1)
more

Subject categories

Experiment-HEP (390)
Instrumentation (37)
Phenomenology-HEP (21)
Experiment-Nucl (9)
Computing (6)
General Physics (3)
Other (2)

Palabras clave frecuentes

ATLAS (286)
experimental results (267)
CERN LHC Coll (264)
7000 GeV-cms (194)
p p: scattering (140)
p p: interaction (75)
CERN LEP Stor (74)
electron positron: colliding beams (69)
ALEPH (68)
electron positron: annihilation (66)
more

Frequent co-authors (excluding collaborations)

W.Quayle.1 (13)
B.Mellado.1 (12)
I.Aracena.1 (11)
S.L.Wu.1 (11)
B.Vachon.1 (10)
C.T.Potter.1 (10)
S.H.Robertson.1 (10)
S.J.Hillier.1 (10)
A.Negri.1 (9)
C.P.Bee.1 (9)
more

Collaborations

ATLAS Collaboration (282)
ALEPH Collaboration (71)
DELPHI Collaboration (5)
L3 Collaboration (5)
OPAL Collaboration (5)
CDF Collaboration (4)
ATLAS (3)
LEP Electroweak Working Group (2)
ATLAS Collaboration (1)
ALEPH (1)
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Sometimes challenging…

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Information | References (54) | Citations (0) | Files | Plots

Search for dark matter in events with a hadronically decaying W or Z boson and missing transverse momentum in pp collisions at $\sqrt{s}$=8 TeV with the ATLAS detector

ATLAS Collaboration (Georges Aad (Freiburg U.), Tatevik Abajyan (Bonn U.), Brad Abbott (Oklahoma U.), Jalal Abdallah (Barcelona, IFAE), Samah Abdel Khalek (Orsay, LAL), Ovsat Abdinov (Baku, Inst. Phys.), Rosemarie Aben (FOM, Amsterdam), Babak Abi (Oklahoma State U.), Maris Abolins (Michigan State U.), Ossama AbouZeid (Toronto U.), Halina Abramowicz (Tel Aviv U.), Henso Abreu (IRFU, Saclay), Yiming Abulaiti (Stockholm U. & Stockholm U., OKC), Bobby Samir Acharya (& King's Coll. London), Leszek Adamczyk (AGH-UST, Cracow), David Adams (Brookhaven), Tetteh Addy, Adelman (Yale U.), Stefanie Adomeit (Munich U.), Tim Adye (Rutherford), Scott Aefsky (Brandeis U.), Ta (VINCA Inst. Nucl. Sci., Belgrade), Juan Antonio Aguilar-Saavedra (CAFPE, Granada & LIP, Lisbon), Marco A, Steven Ahlen (Boston U.), Ashfaq Ahmad (SUNY, Stony Brook), Faig Ahmadov (Dubna, JINR & Baku, Inst. (Southern Methodist U.), Giulio Aielli (INFN, Rome & Rome U.,Tor Vergata), Torsten Paul Ake Åkesson (Lund U., ICEPP), Andrei Akimov (Lebedev Inst.), Muhammad Aftab Alam (Royal Holloway, U. of London), Justin A, Albrand (LPSC, Grenoble), Maria Josefina Alconada Verzini (La Plata U.), Martin Aleksa (CERN), Igor Al, Franco Alessandria (INFN, Milan), Calin Alexa (Bucharest, IFIN-HH), Gideon Alexander (Tel Aviv U.), Gauth, Theodoros Alexopoulos (Natl. Tech. U., Athens), Muhammad Alhroob (INFN, Udine & Udine U.), Malik Aliev (Humboldt U., Berlin), Gianluca Alimonti (INFN, Milan), Lion Alio (Marseille, CPPM), John Alison (Chicago U., EFI), Benedict Allbr, John Allison (Lancaster U.), Phillip Allport (Liverpool U.), Sarah Allwood-Spiers (Glasgow U.), John Almon, Aloisio (INFN, Naples & Naples U.), Raz Alon (Weizmann Inst.), Alejandro Alonso (Bohr Inst.), Francisco Alo, David Altheimer (Nevis Labs, Columbia U.), Barbara Alvarez Gonzalez (Michigan State U.), Mariagrazia Alv, U.), Katsuya Amako (KEK, Tsukuba), Yara Amaral Coutinho (Rio de Janeiro Federal U.), Christoph Amelu, Ammosov (Serpukhov, IHEP), Susana Patricia Amor Dos Santos (LIP, Lisbon), Antonio Amorim (LIP, Lis, Simone Amoroso (Freiburg U.), Nir Amram (Tel Aviv U.), Glenn Amundsen (Brandeis U.), Christos Anast, Stefan Ancu (Bern U., LHEP), Nansi Andari (CERN), Timothy Andeen (Nevis Labs, Columbia U.), Christop, U.), Gabriel Anders (Kirchhoff Inst. Phys.), Kelby Anderson (Chicago U., EFI), Attilio Andreazza (INFN, Mi, Victor Andrei (Kirchhoff Inst. Phys.), Xabier Anduaga (La Plata U.), Stylianos Angelidakis (Athens U.), Philipp Anger (Dresden, Tech. U.), Aaron Angerami (Nevis Labs, Columbia U.), Francis Anghinolfi (CERN), Alexey Anisenkov (Novosibirsk, IYF), Nuno Anios (LIP, Lisbon), Alberto Annovi (Frascati), Ariadni Antonaki (Athens U.), Mario Antonelli (Frascati), Alexey Antonov, Jaroslav Antos (Kosice, IEF), Fabio Anulli (INFN, Rome), Masato Aoki (Nagoya U.), Ludovica Aperio Bel

Information | References (0) | Citations (0) | Files | Plots

The radiation hardness test on CsI(Tl) crystals for BESIII

Boxiang Yu, Cheng Yuan, Junguang Lu, Li Zhou, Gang Qin, Zhenghua A, Zhigang Wang, Lijun Sun, Jian Fang, Lei Shang *et al.* Show all 13 authors

2009 - 4 pages

IEEE Nucl.Sci.Symp.Conf.Rec. 2009 (2009) 2032-2035
(2009)

Information | References (48) | Citations (0) | Files | Plots

Analysis of strong decays of the charmed mesons $D_J(2580)$, $D_J^*(2650)$, $D_J(2740)$, $D_J^*(2760)$, $D_J(3000)$, $D_J^*(3000)$

Zhi-Gang Wang

Aug 2, 2013 - 13 pages

e-Print: arXiv:1308.0533 [hep-ph] | PDF

Information | References (0) | Citations (1) | Files | Plots

Fusion and one-neutron stripping reactions in the 9Be + 186W system above the Coulomb barrier

Y.D. Fang, P.R.S. Gomes, X.H. Zhou, Y.H. Zhang, J.L. Han, M.L. Liu, J.G. Wang, Y.H. Qiang, Z.G. Wang, X.G. Wu *et al.*
Show all 14 authors

2013 - 6 pages

Phys.Rev. C87 (2013) 024604

Some introspection… 1/3

- Does technology/automated services lower curation costs?
  - Automated reference extraction helps

  … but more and diverse content comes in, and expectations increase
  - Authors: technology enables a connection between person and papers.

  … but higher visibility results in more request for manual curation

Some introspection… 2/3

- Who can/should/would curate?
  - The crowd vs. trained personnel?
  - The authors vs. the users?
    - Who to trust?
    - Who ‘understands’?
    - Who asks the right questions?

Some introspection… 3/3

- What data services (DPHEP level 2 and link to level 3)?
  - Anticipate vs. react
  - Prototype vs. scaling
  - Users vs. curators