

Sharing Results

Reading, writing, citing and sharing HEP

Travis Brooks

SLAC Scientific Information Services

INSPIRE Collaboration

Sharing Scientific Results

Why you might **care**

INSPIRE: An **example** I know well

What else is out there

Why do you care?

- Science perspective
 - You have tools available
 - And more on the way
- Computing perspective
 - There are some hard problems here:
 - High precision search
 - Community building
- SLAC perspective
 - There is some expertise nearby

50,000 HEP researchers
25,000 documents a year

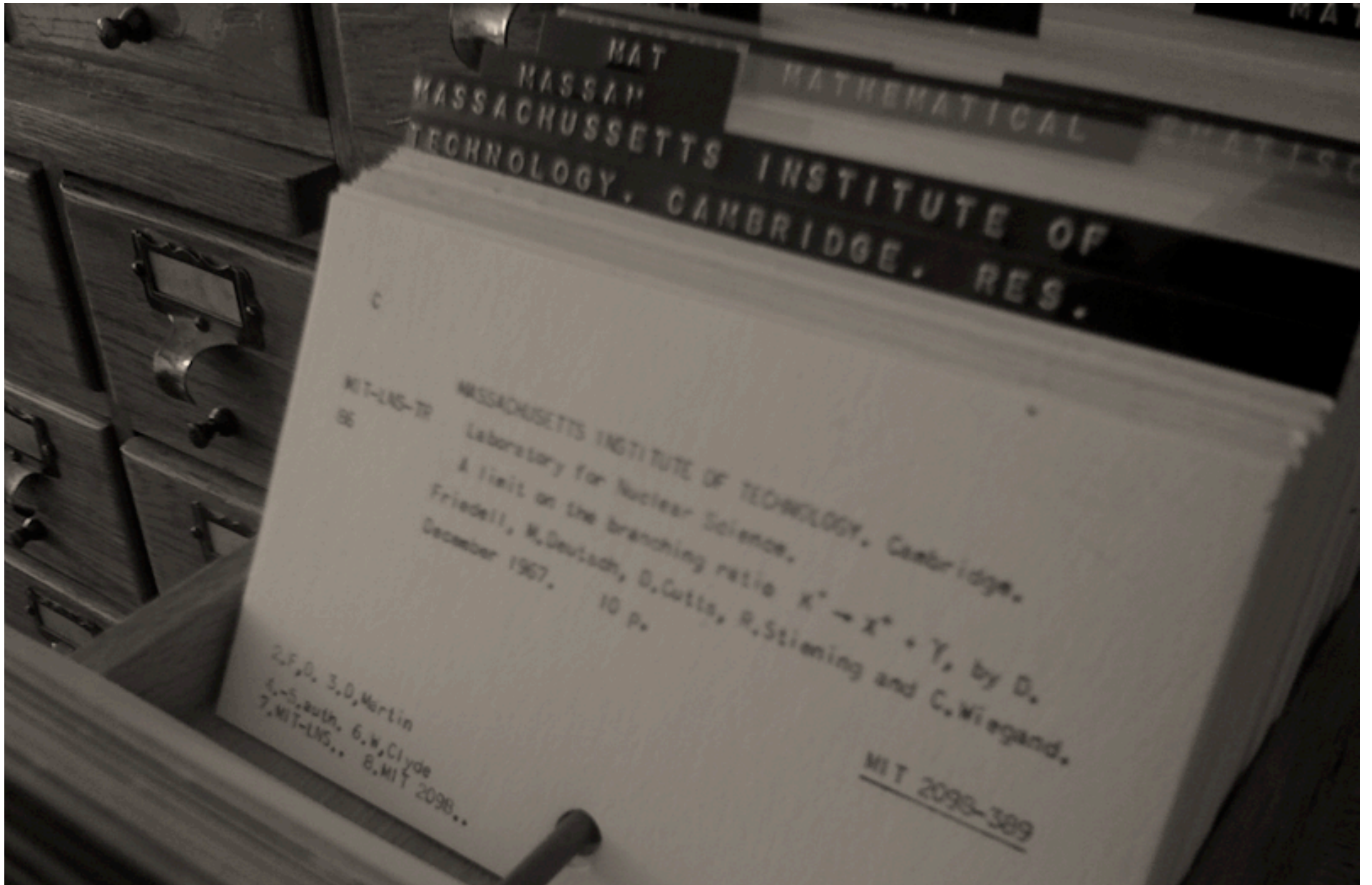
For 50 years we've
been **exchanging** these papers



Once upon a time HEP folks wrote papers...



...then went to the mailroom...



MAT
MASSACHUSETTS INSTITUTE OF
TECHNOLOGY, CAMBRIDGE, RES.

C
MASSACHUSETTS INSTITUTE OF TECHNOLOGY, Cambridge.
Laboratory for Nuclear Science.
A limit on the branching ratio $X^* \rightarrow X^* + \gamma$, by D.
Friedell, R. Devitsch, D. Cutts, R. Stiening and C. Wiegand,
December 1967. 10 p.

2.F.O. 3.O, Martin
4.-5. auth. 6. W. Clyde
7. MIT-LNS.. 8. MIT 2098..

MIT 2098-389

...libraries catalogued *preprints*...

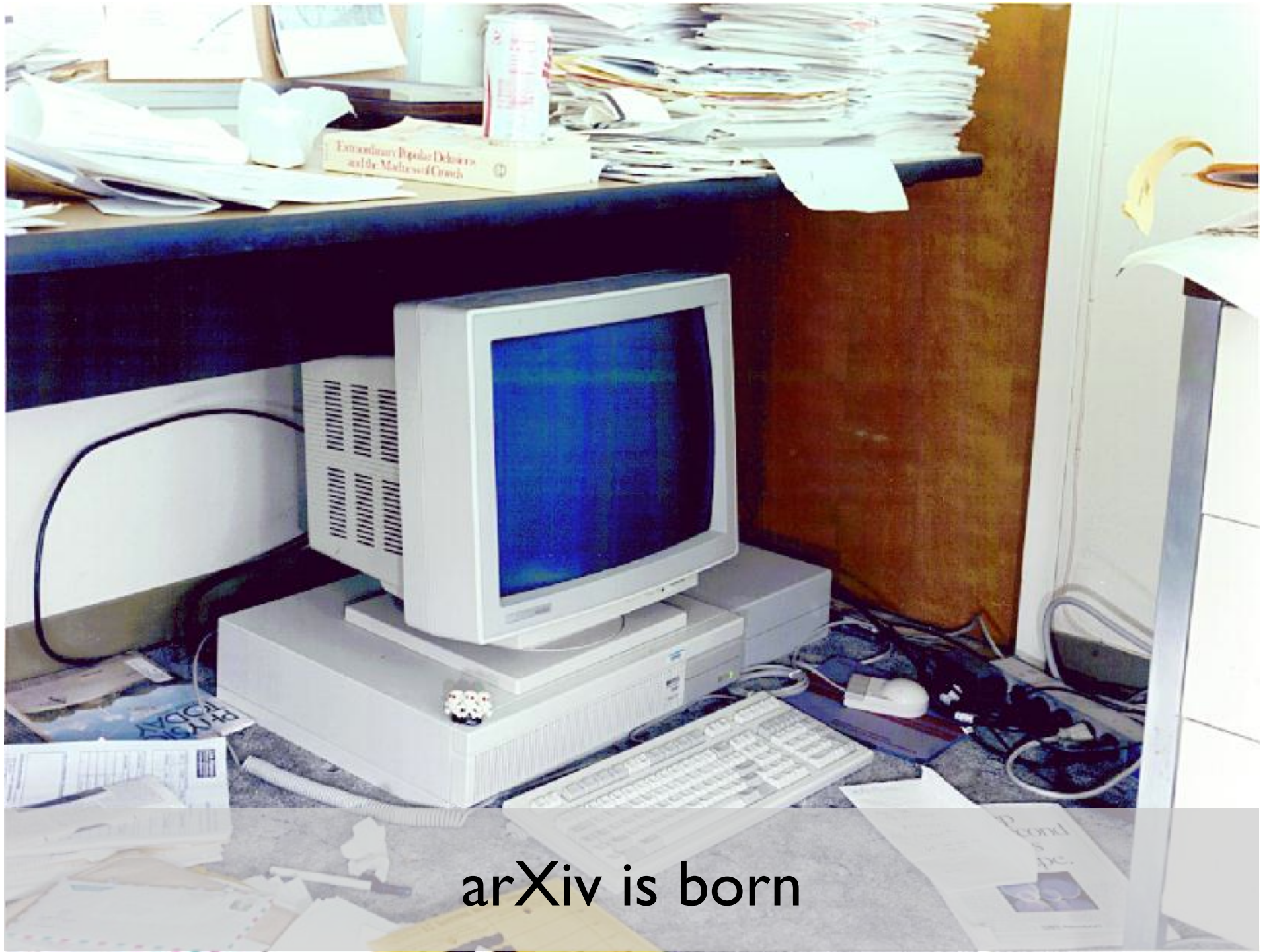
...SLAC library used computers...





Can't we do it via e-mail?

(Paul Ginsparg)



arXiv is born



An idea “vague but exciting”

(Tim Berners-Lee)

First web site in the U.S.



Rebuild aging infrastructure

SPIRES content

Invenio repository software

New opportunities



Fermilab





Welcome to [INSPIRE](#) β : the upgrade of SPIRES
We now recommend that you use this site instead of SPIRES
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Use "find " for SPIRES-style search ([other tips](#))

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[find j "Phys.Rev.Lett.,105"](#) :: [more](#)

HOW TO SEARCH

SPIRES syntax is (mostly) supported (requires "find")
[find a richter, b and t quark and date > 1984](#)
[find j phys.rev.,D50,1140 or j jhep,0903,112](#)
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INSPIRE NEWS

- 2011-04-25 <http://inspirebeta.net> just got a streamlined search box. It should be easier to use, especially for SPIRES users. More changes coming.
- 2011-03-28 The mail and ticketing systems are now back online. Thanks for your patience.
- 2011-03-26 INSPIRE and SPIRES mail and ticketing systems went down Mar-25 PM. We are working on

Search

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772 records found 1 - 25 ▶▶ jump to record:

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1. A Model of Leptons.

⁽⁷⁴²⁵⁾ [Steven Weinberg](#) (MIT, LNS), Nov 1967. 3 pp.
Published in **Phys.Rev.Lett.** 19 (1967) 1264-1266

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2. Radiative Corrections as the Origin of Spontaneous Symmetry Breaking.

⁽²⁸¹⁴⁾ [Sidney R. Coleman](#), [Erick J. Weinberg](#) (Harvard U.), 1973.
Published in **Phys.Rev.** D7 (1973) 1888-1910

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3. The Sloan Digital Sky Survey: Technical Summary.

⁽²⁵⁰⁴⁾ [SDSS Collaboration](#) ([Donald G. York](#) (Chicago U., Astron. Astrophys. Ctr.) *et al.*), FERMILAB-PUB-01-319-A. Sep 2000. 23 pp.
Published in **Astron.J.** 120 (2000) 1579-1587
e-Print: [astro-ph/0006396](#)

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Total number of citations:	49,336	48,661
Average citations per paper:	268.1	286.2

Breakdown of papers by citations:

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Well-known papers (50-99)	22	20
Known papers (10-49)	34	30
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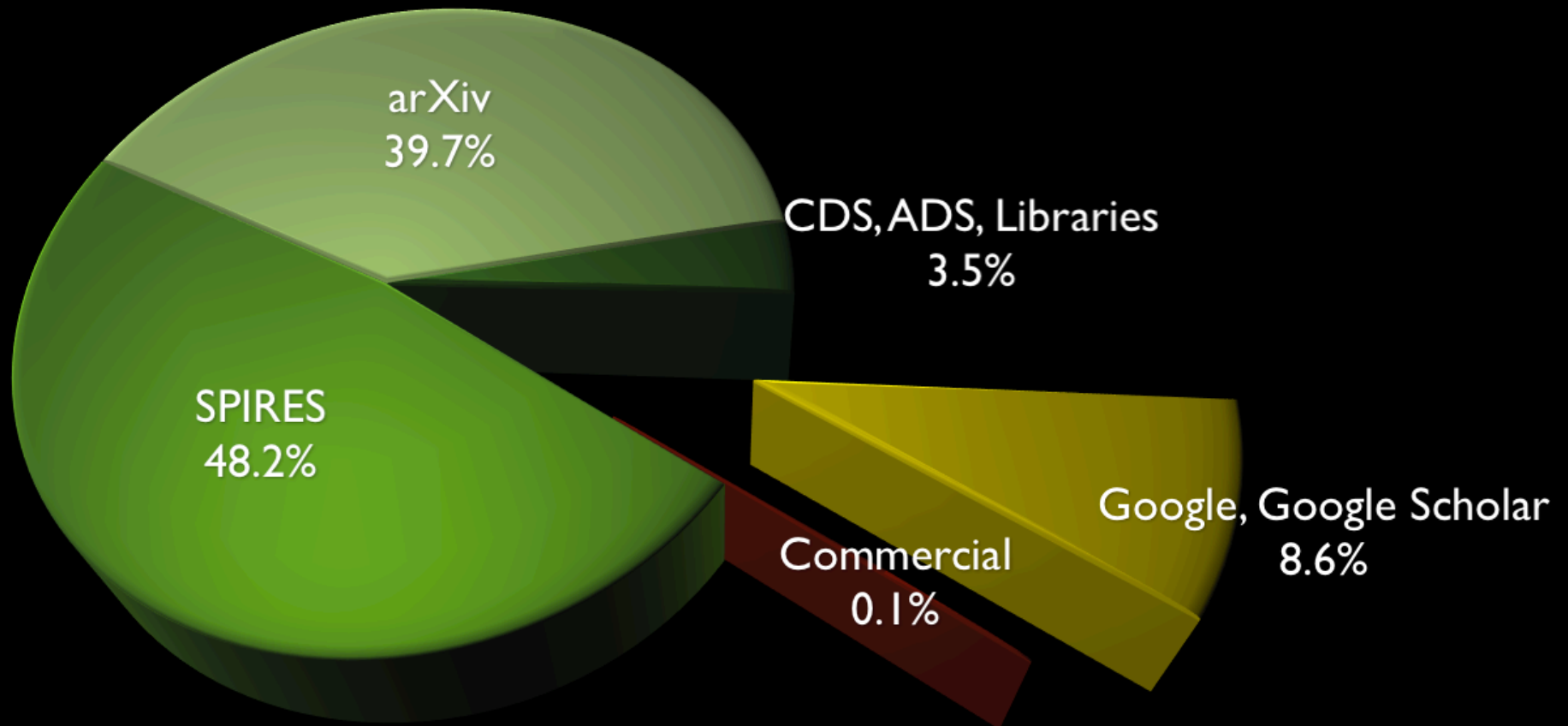
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A group of people at a conference, many wearing blue lanyards, looking excited and cheering. The text is overlaid on the image.

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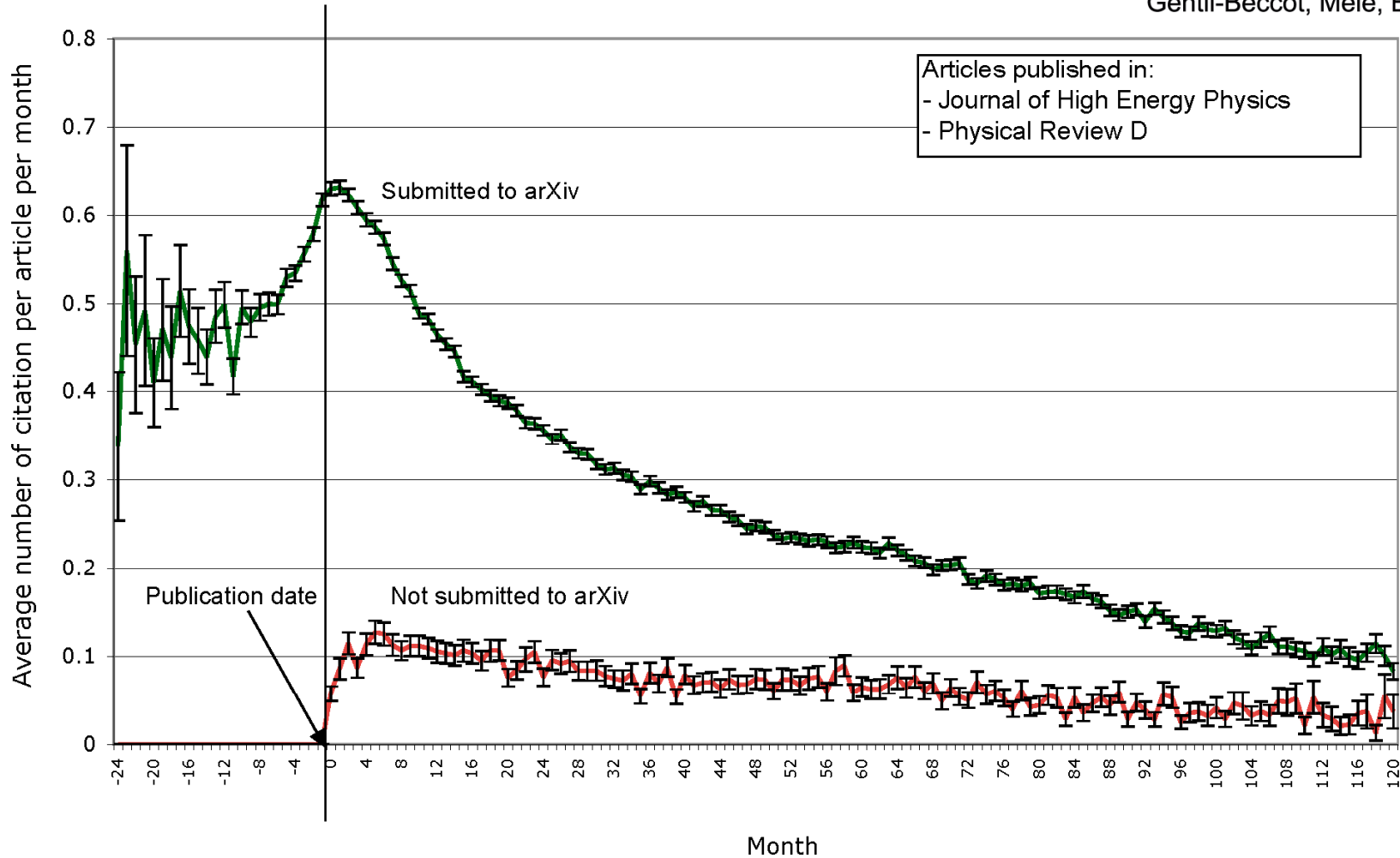
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Acceleration

arxiv:0906.5418
Gentil-Beccot, Mele, Brooks

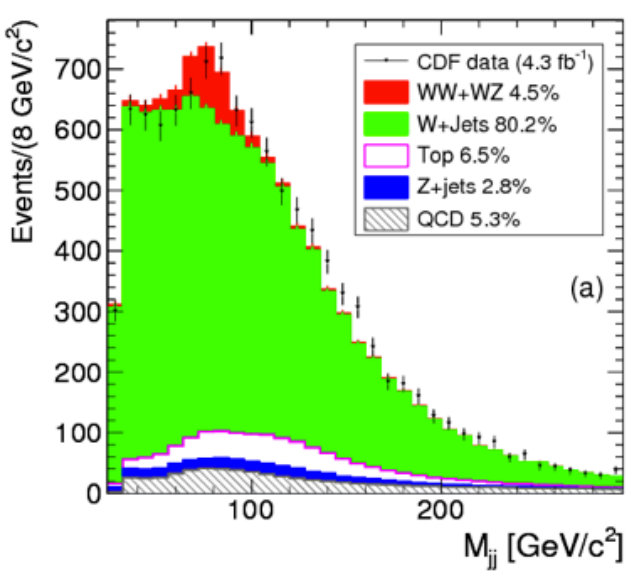


Scientific discourse proceeds faster



...a place to put stuff

Invariant Mass Distribution of Jet Pairs Produced in Association with a W boson in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV - CDF Collaboration (Aaltonen, T. *et al.*) Phys.Rev.Lett. 106 (2011) 171801 . arXiv:1104.0699 [hep-ex] . FERMILAB-PUB-11-164-E



(a)

Legend:

- CDF data (4.3 fb⁻¹)
- WW+WZ 4.5%
- W+Jets 80.2%
- Top 6.5%
- Z+jets 2.8%
- QCD 5.3%

The dijet invariant mass distribution. The sum of electron and muon events is plotted. In the left plots we show the fits for known processes only (a) and with the addition of a hypothetical Gaussian component (c). On the right plots we show, by subtraction, only the resonant contribution to M_{jj} including WW and WZ production (b) and the hypothesized narrow Gaussian contribution (d). In plot (b) and (d) data points differ because the normalization of the background changes between the two fits. The band in the subtracted plots represents the sum of all background shape systematic uncertainties described in the text. The distributions are shown with a 8 GeV/c² binning while the actual fit is performed using a 4 GeV/c² bin size.

...a better place to put stuff

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...a place to put internal stuff

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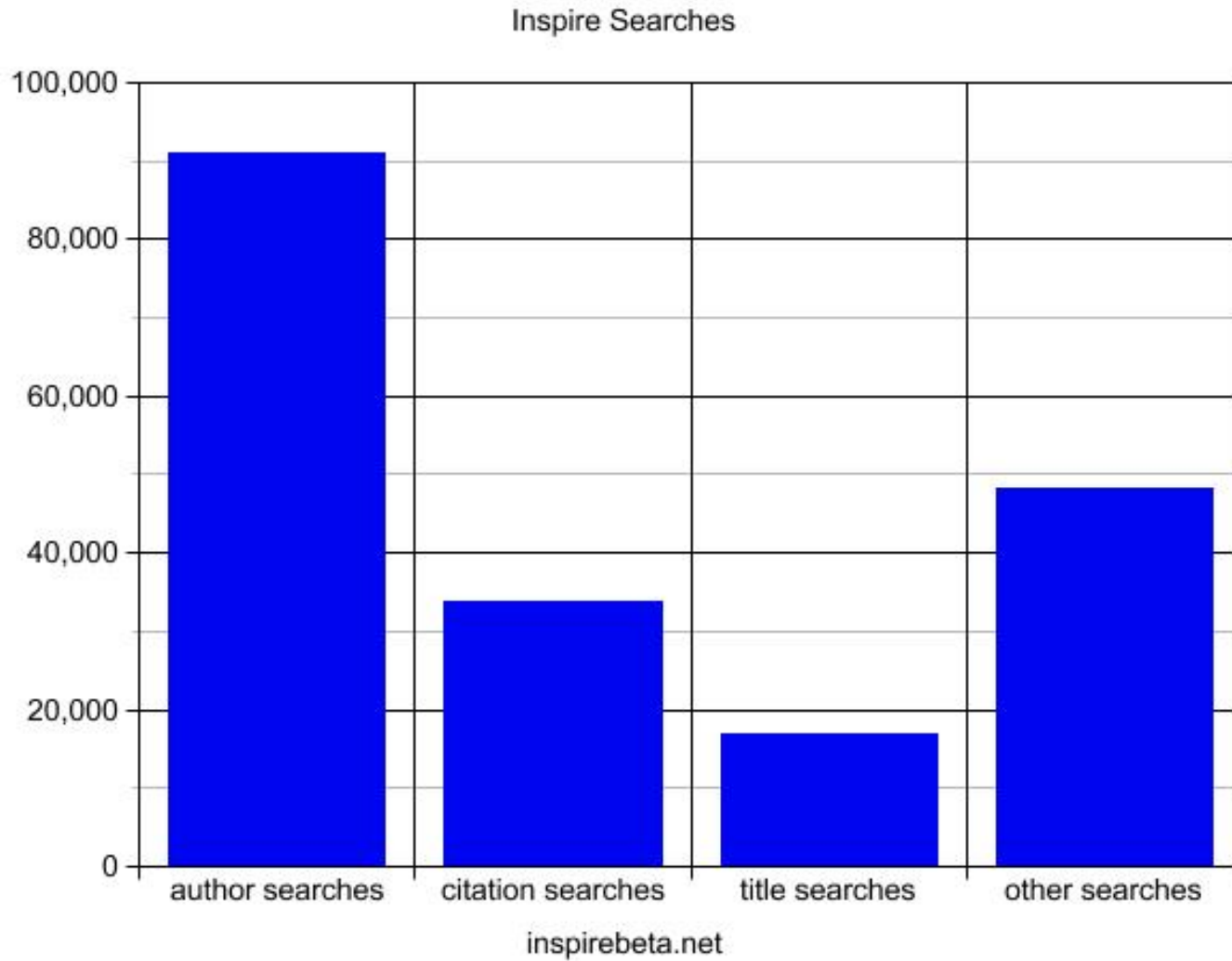
- 1. Correction of detector effects: bin-by-bin and unfolding.**
H1 Collaboration ([Stefan Schmitt](#) for the collaboration). H1-IN-633. Mar 2011.
[References](#) | [BibTeX](#) | [LaTeX\(US\)](#) | [LaTeX\(EU\)](#) | [Harvmac](#) | [EndNote](#)
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- 2. Addition to Radiative Corrections for Charged Current Process at HERA.**
H1 Collaboration ([Zhiqing Zhang](#) for the collaboration). H1-IN-632. Dec 2010.
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- 3. The Low Pt HFS and Jet Energy Calibration.**
H1 Collaboration ([S. Osman et al.](#)). H1-IN-631. Feb 2009.
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- 4. Energy loss measurement with the H1 Central Jet Chamber.**
H1 Collaboration ([C. Kleinwort](#) for the collaboration). H1-IN-630. Aug 2008.
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A place with all their other stuff

Users are ready to help



Authors and Citations



Who do we know?

Algorithmic author disambiguation
“Who was where, and when,
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From 6.5M signatures to 210K authors,
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But we can't get them all



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Or is the future a global *social*
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Systematic event generator tuning for the LHC

Andy Buckley, Hendrik Hoeth, Heiko Lacker, Holger Schulz, Jan Eike von Seggern

(Submitted on 17 Jul 2009)

In this article we describe Professor, a new program for tuning model parameters of Monte Carlo event generators to experimental data by parameterising the per-bin generator response to parameter variations and numerically optimising the parameterised behaviour. Simulated experimental analysis data is obtained using the Rivet analysis toolkit. This paper presents the Professor procedure and implementation, illustrated with the application of the method to tunes of the Pythia 6 event generator to data from the LEP/SLD and Tevatron experiments. These tunes are substantial improvements on existing standard choices, and are recommended as base tunes for LHC experiments, to be themselves systematically improved upon when early LHC data is available.

Comments: 28 pages. Submitted to European Physical Journal C. Program sources and extra information are available from [this http URL](#)

Subjects: **High Energy Physics – Phenomenology (hep-ph)**; High Energy Physics – Experiment (hep-ex) Data Analysis, Statistics and Probability (physics.data-an)

Journal reference: Eur.Phys.J.C65:331–357,2010

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(15 Dec 2010)

by [Simone Alioli](#), [Keith Hamilton](#), [Paolo Nason](#), [Carlo Oleari](#), [Emanuele Re](#)

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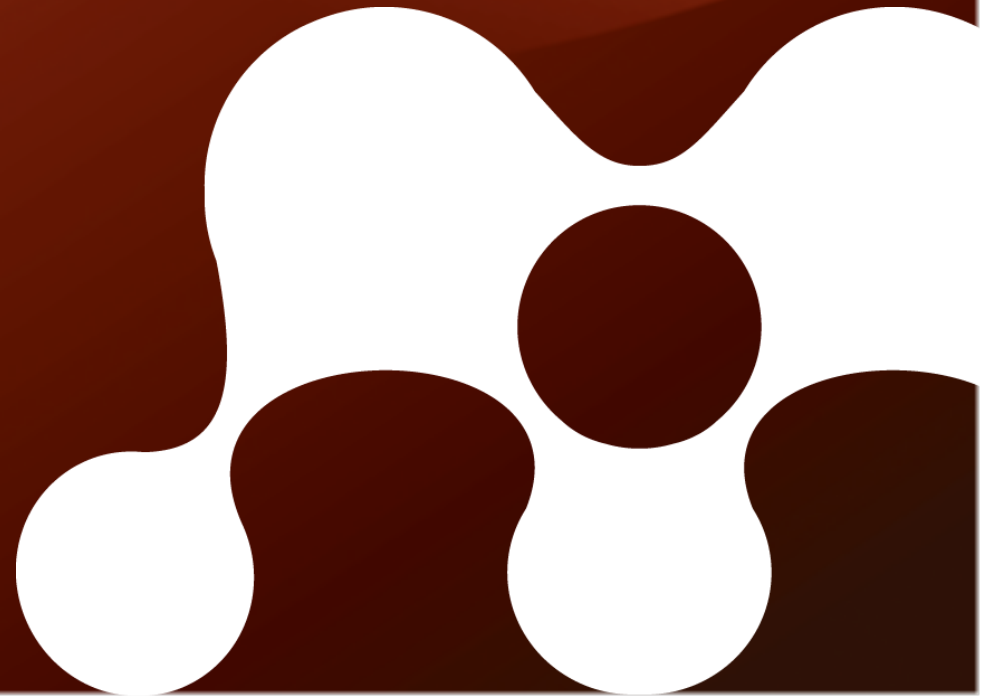
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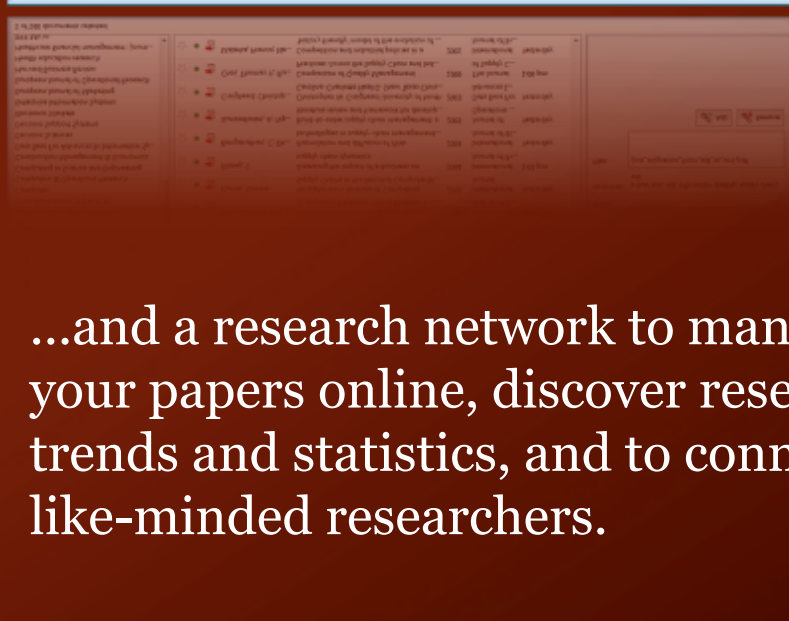
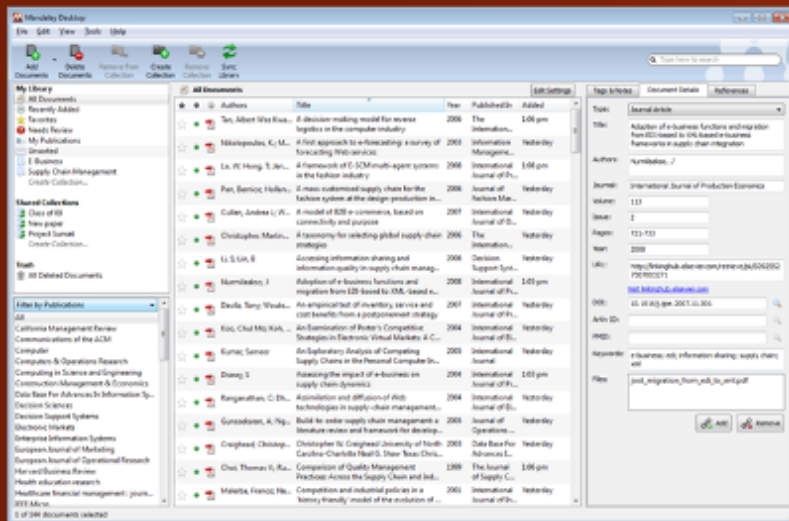
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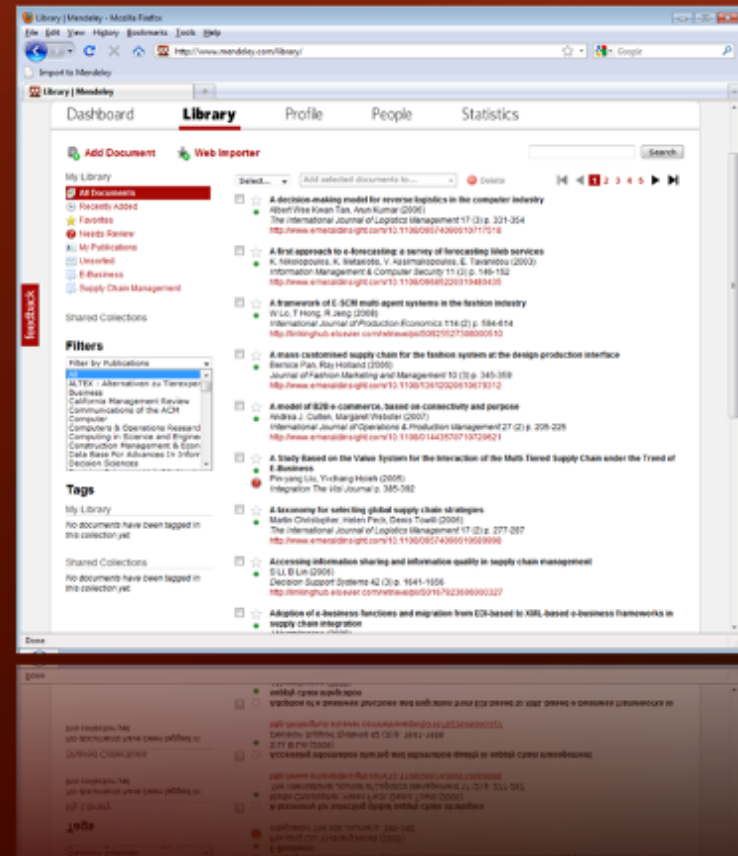


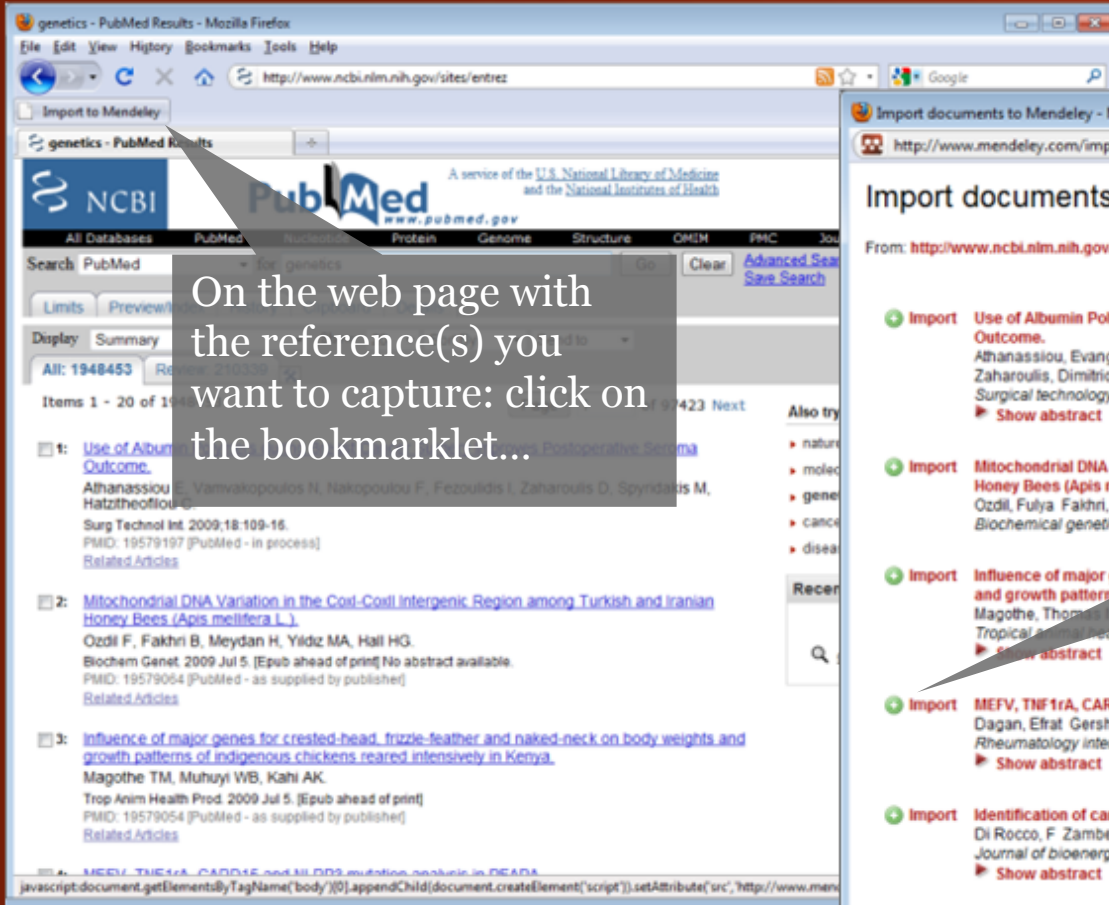
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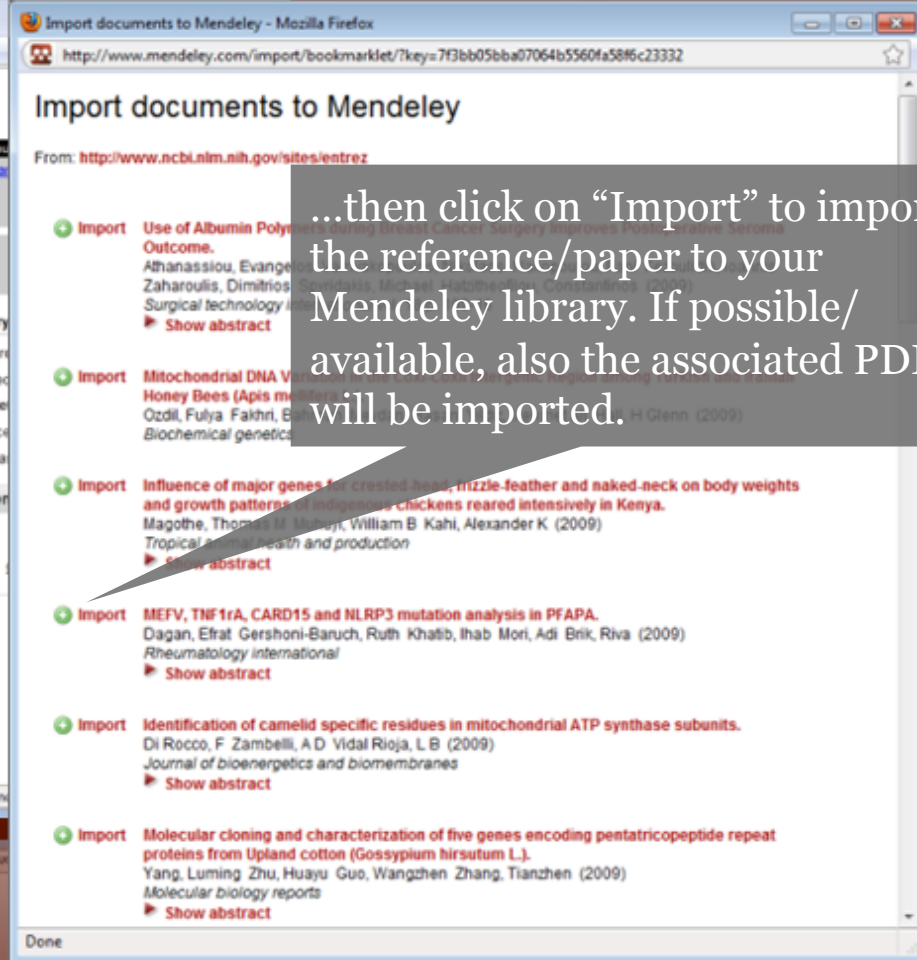
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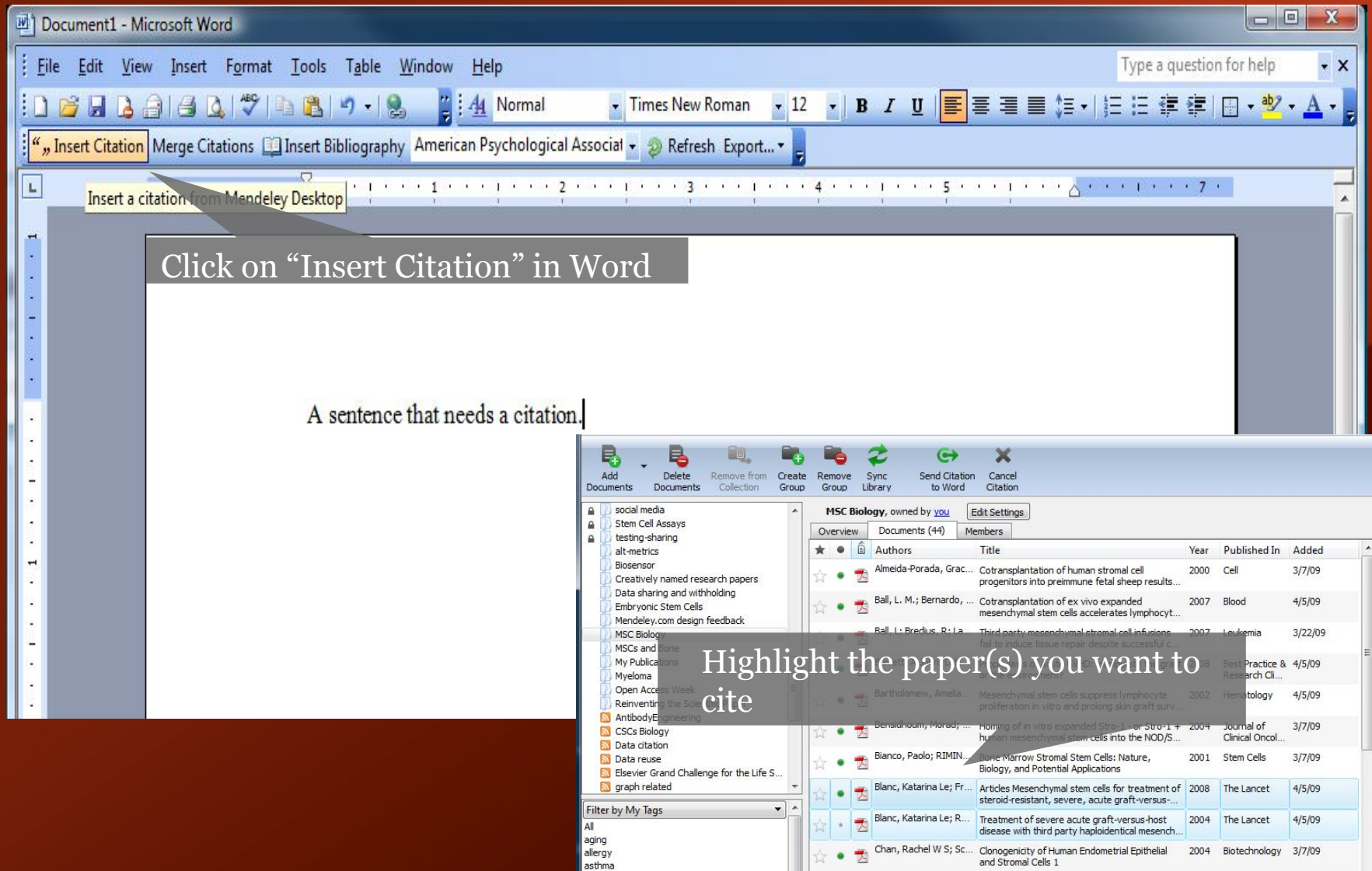
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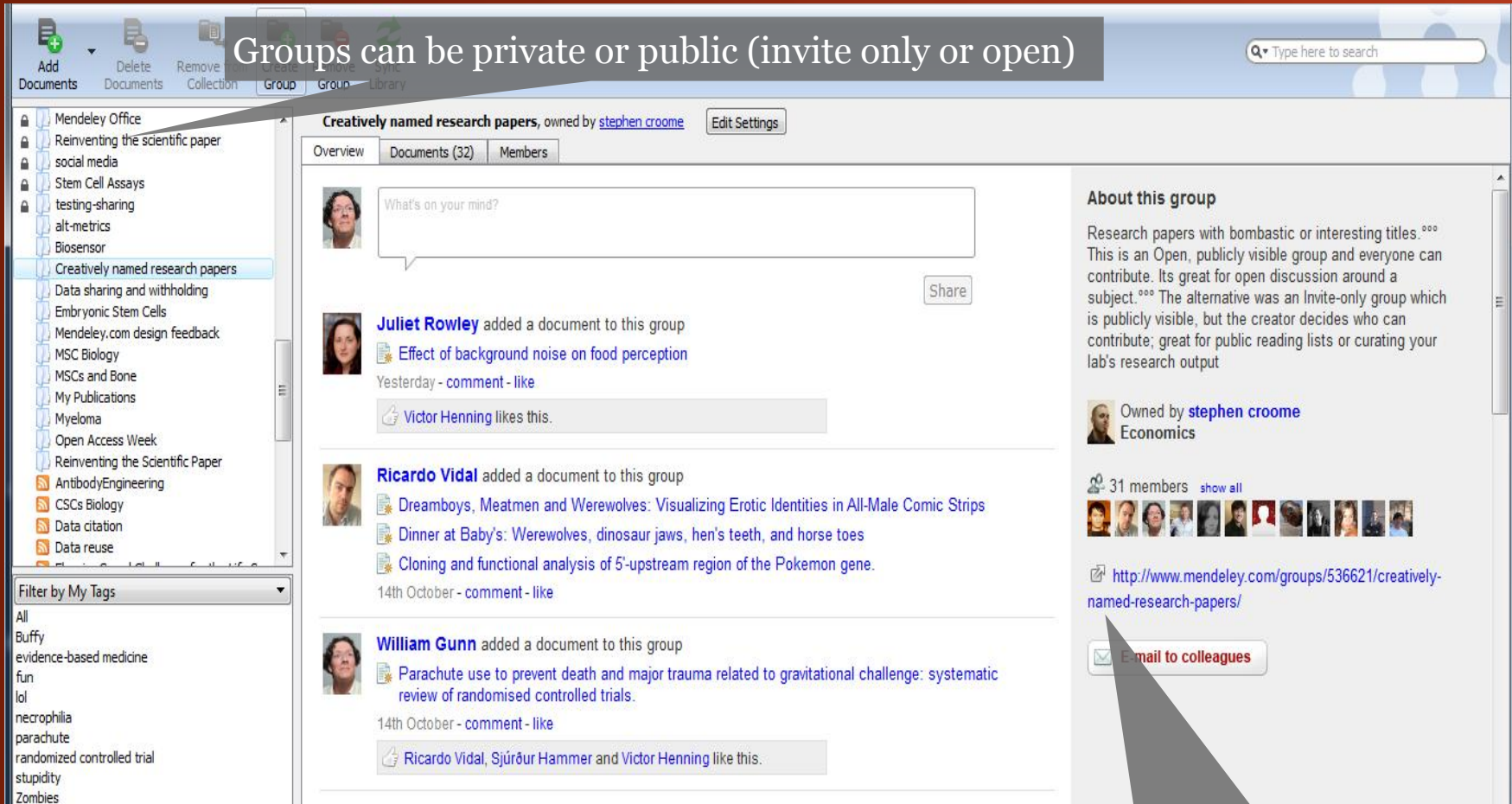


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[Wireless communication system for reliable communication between a group of apparatuses](#)

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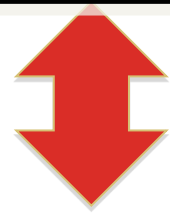
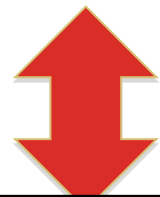
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