

INSPIRE

Travis Brooks (SLAC)
Tibor Simko (CERN)

SPIRES History

SLAC SPIRES

SLACVM SPIRES HEP Preprint Database

Search

Perform search using standard SPIRES terminology

Help

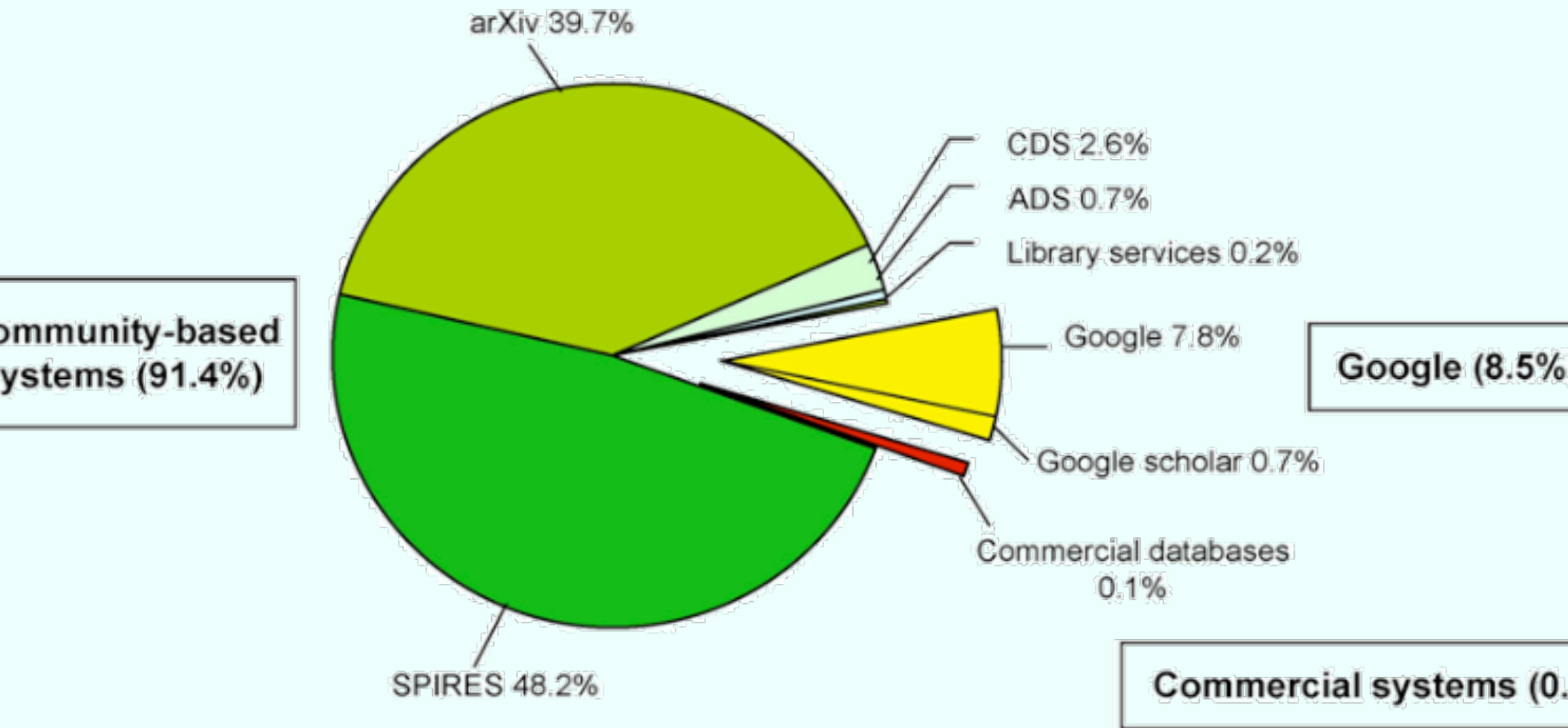
Get help for SPIRES

- Index to HEP literature for 35 years
 - Via terminal login
 - Via email
 - Via web (Let LSS Website/Let web database)

SPIRES' History

- HEP Libraries store paper papers
- Distributed via postal mail to major centers
- SPIRES catalogs (and distributes) preprints received at SLAC
- Centralized, community-driven model
 - Major lab libraries... essentially the world HEP preprint catalog.

Usage



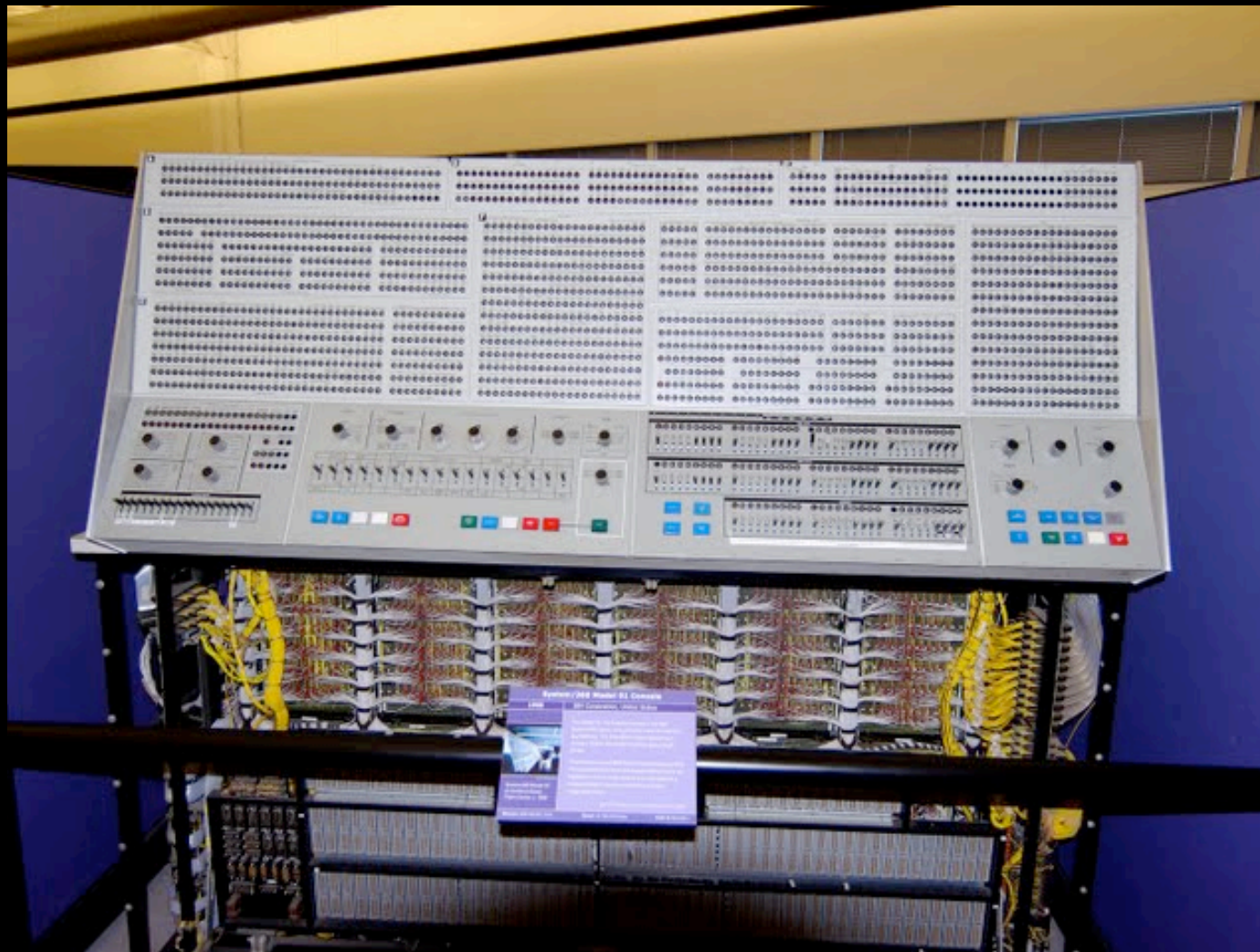
- From 2007 survey of 2,000 physicists by CERN, DESY, Fermilab and SLAC.
- Gentil-Beccot et al, *Information Resources in High-Energy Physics: Surveying the Present Landscape and Charting the Future Course*, *J Am Soc Inf Sci* 60:150-160 2009

Numbers

- 834,049 (as of Oct 15)
- 50,077 (During 2008)
- 82,719 (Oct 15 - typical)
- 178 (Last week - typical)

SPIRES System

- PL360 Emulated in C!
- SPIRES (non-SQL DBMS + internal scripting language)
- And the clearest, least obfuscated, best documented part of the code base is...
- ...Perl!



INSPIRE

- Partnership of CERN, DESY, Fermilab and SLAC
- Unify SPIRES content with CERN's Invenio platform

Who is INSPIRE

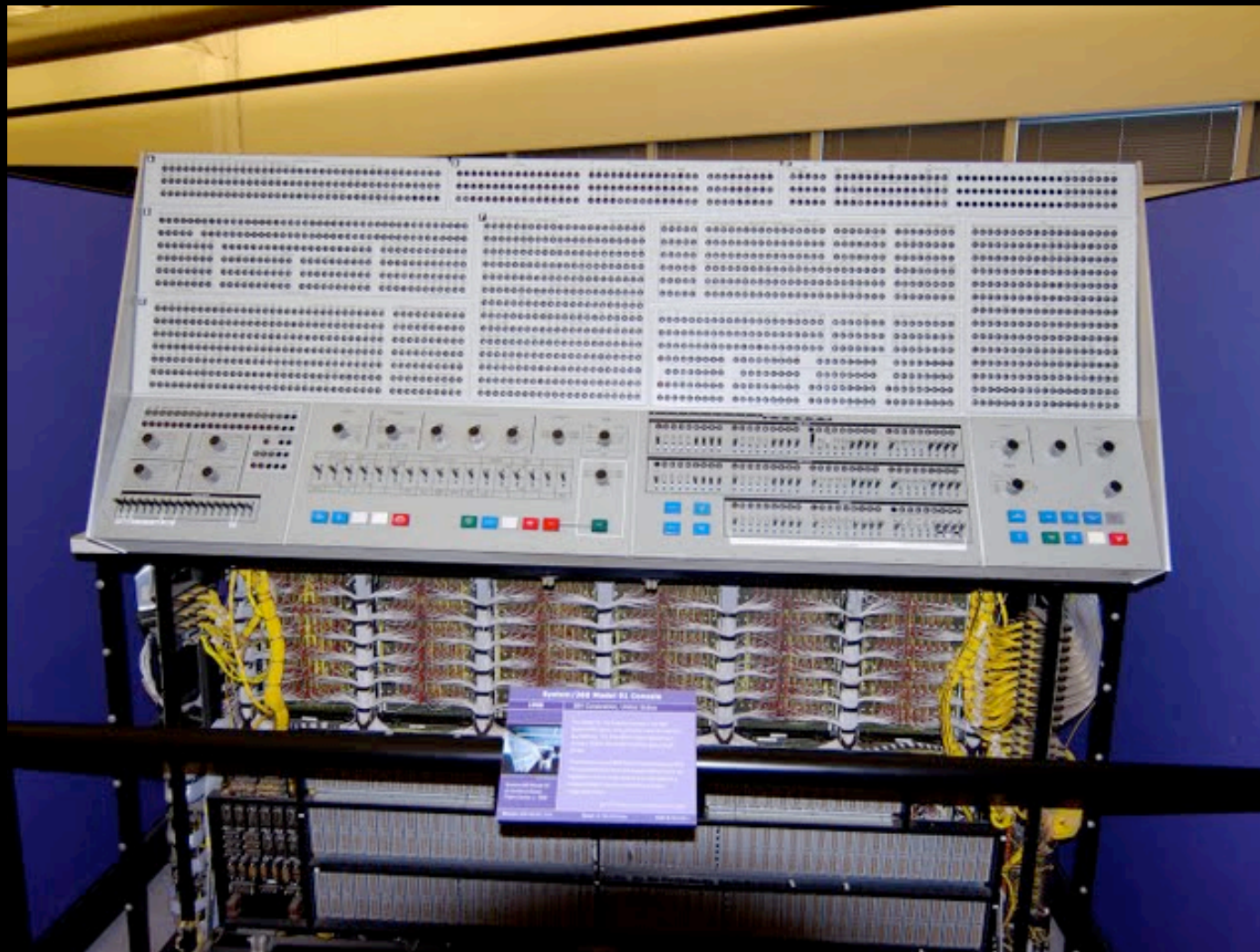
- ~ 10-15 FTE distributed at 4 labs
- Travis Brooks - Operations
- Heath O'Connell - Community
- Annette Holtkamp - Content
- Salvatore Mele - Strategy
- Kirsten Sachs - Classification
- Tibor Simko - Technical

Timeline: Past

- 2007: Inception of INSPIRE
 - 1st Summit - SLAC
- 2008: Initial investigations
 - 2nd Summit - DESY
- 2009: Real work
 - 3rd Summit - Fermilab

Timeline:Current

- April: <http://inspirebeta.net> released softly





Timeline:Current

- April: <http://inspirebeta.net> released softly
- May: bugfixes as we move into wider distribution
- June: Plots extracted and captions searchable from arXiv and partner publishers
- July: Fulltext searching on recent core papers from arXiv and partner publishers

Timeline:Future

- Who is who
- Claim my Papers
- “MyINSPIRE”
- User Submissions
 - Papercentric
 - Wider universe of objects

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

- Disambiguation* using:
 - Name
 - Affiliation
 - Co-Authors
 - Dates
 - Subfield of HEP
- *Henning Weiler - PhD student@CERN

or Details (#64)

STORY

ooft, Gerard (177 Papers)
ooft, G. (14 Papers)
ooft, Gerard, (ed.) (6 Papers)
ooft, G., (ed.) (1 Paper)
ooft, G. (1 Paper)

ION HISTORY (8 DISTINCT)

9-10 - Utrecht U. (as 't Hooft, Gerard)
9-09 - Utrecht U. (as 't Hooft, Gerard)
8-04 - Utrecht U. (as 't Hooft, Gerard)
8-01 - Utrecht U. (as 't Hooft, G.)
7-10 - Utrecht U. (as 't Hooft, Gerard)

CO-AUTHOR HISTORY

- Mitter, p. k. (5 Papers with "'t Hooft, Gerard, (ed.)")
- Stora, r. (5 Papers with "'t Hooft, Gerard, (ed.)")
- Jaffe, a. (5 Papers with "'t Hooft, Gerard, (ed.)")
- Veltman, m. j. g. (5 Papers with "'t Hooft, Gerard")
- Dray, t. (4 Papers with "'t Hooft, Gerard")

PERS (199)

- [A PHYSICAL INTERPRETATION OF GRAVITATIONAL INSTANTONS](#) (as "'t Hooft, Gerard", p: 68.75%)
- [Counting planar diagrams with various restrictions](#) (as "'t Hooft, Gerard", p: 74.00%)
- [Under the spell of the gauge principle](#) (as "'t Hooft, Gerard", p: 74.65%)
- [Can the ultimate laws of nature be found?](#) (as "'t Hooft, Gerard", p: 74.65%)
- [QUANTUM FIELD THEORY FOR ELEMENTARY PARTICLES IS QUANTUM FIELD THEORY A THEOR](#)

TORY

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

ON HISTORY (10 DISTINCT)

9-12 - Unknown (as Ellis, Stephen D.)
9-05 - Washington U., Seattle (as Ellis, Stephen D.)
7-12 - Washington U., Seattle (as Ellis, S.D.)
5-09 - Washington U., Seattle (as Ellis, S.D.)
5-04 - Washington U., Seattle (as Ellis, Stephen D.)

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, Sim
- 2003-04 - Unknown (as Ellis, S.C.)
- 2001-10 - Unknown (as Ellis, S.C.)
- 2000-11 - Unknown (as Ellis, S.)

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

- [The K band luminosity function of high redshift clusters](#) (as "Ellis,
- [The colour-magnitude relations of clj1226.9+3332, a massive clu](#)
- [Characterization and on-sky demonstration of an integrated phot](#)
- [The x-ray evolution of clusters of galaxies to z=0.9](#) (as "Ellis, S.",
- [The case for OH suppression at near-infrared wavelengths](#) (as "E

Who

- On 963 documents, 21 real authors could be identified for the query "Chen, G".
 - 22 orphans remain
 - 98% identified
- Validating and integrating now
 - 2Q10

Crowdsource

- 2 levels of accounts: Generic vs. Trusted
- Generic
 - coolguy666@gmail.com
- Trusted
 - Tied to academic affiliation
 - ...and ORCID....
 - Ability to correct information and **claim papers**
 - Corrections still vetted by staff

Crowdsourcing

- User creates account to get features
- We suggest creation of Academic account (email driven and verified)
- Suggest papers to “claim” based on auto-disambiguated set
- Rollout 3Q10

MyINSPIRE

- RSS of a search, even a cite alert, is nice...but...
- astro solved this one for us
- Users create libraries of stored papers, searches, alerts, tags etc.
- “who cited any of my papers” alerts
 - (alerting on arXiv, journals...)
- Add 2nd order operators...



Organize

MyINSPIRE

- Grouping, sharing, classification at the user level
- Information sharing between users
- ...but also to be mined by INSPIRE
- Rollout 3Q10

User Submission

- Beyond claiming papers...submitting old material
 - Scanned theses, pre-arXiv preprints...
- Outreach to user community eliciting submissions
- 3Q10

User Submission

- Beyond papers...submitting mathematica, (high level) data files, tables, etc
- Archival function - Aim for OAIS compliance
- Experiments
 - Wikis, Code, Documentation
 - arxiv:0912.0255 - Report of ICFA Study Group on Data Preservation in HEP...

We Love To Share

ADS/INSPIRE

Recommendations

Tags

Stats

Semantic

Community

Partnership