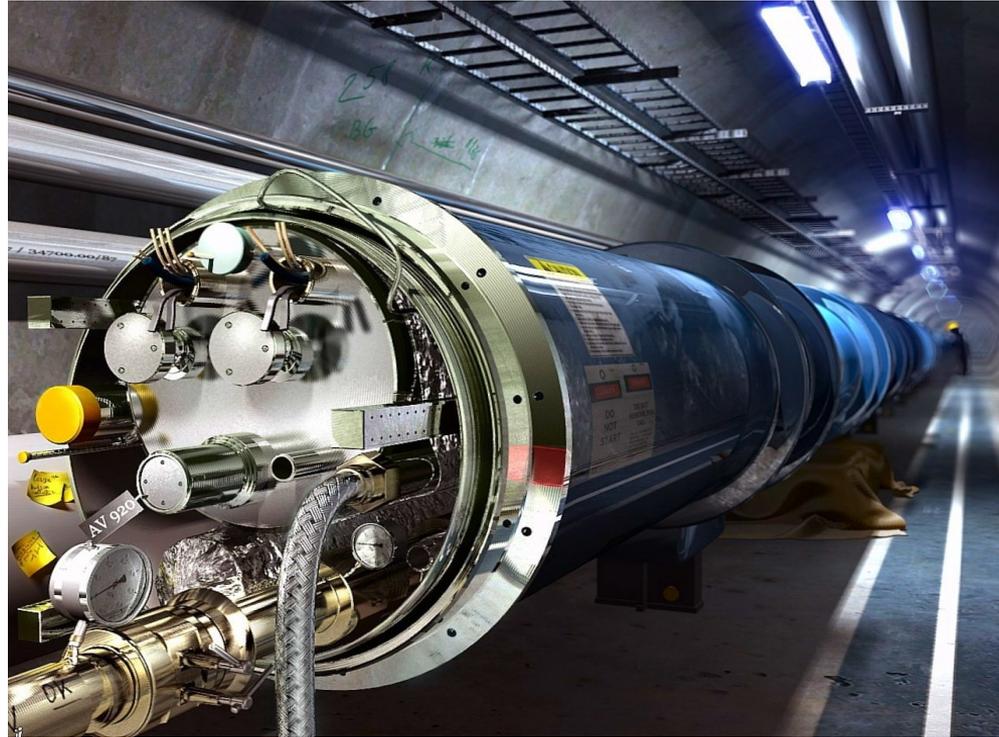


INSPIRE: contributions to Invenio from the leading High Energy Physics platform

Open Repositories 2014, Helsinki

Javier Martin Montull
on behalf of the INSPIRE collaboration

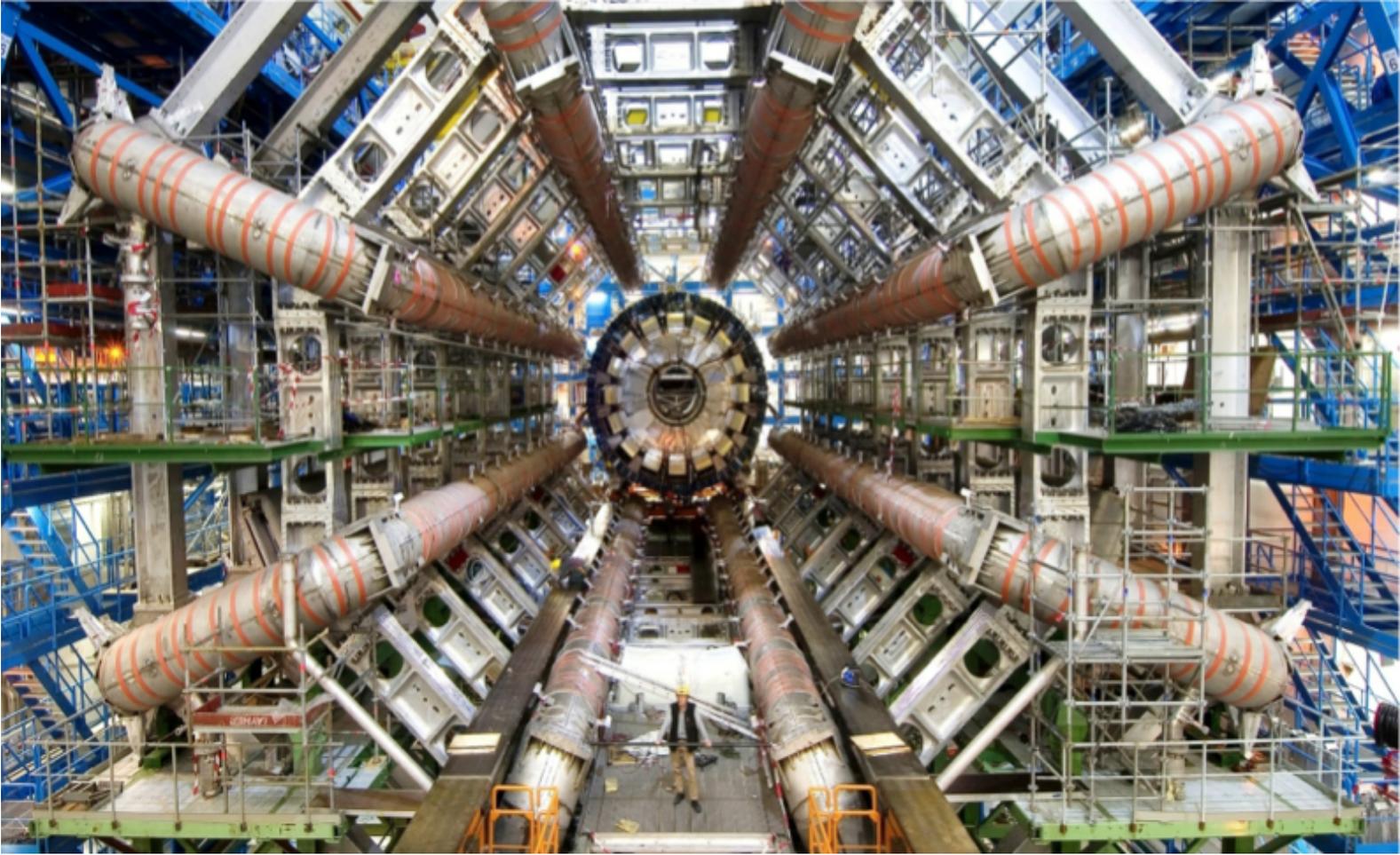
HEP (High Energy Physics) ?



Who are our **users**?

~50.000 users (HEP scientists)

~2 searches/sec

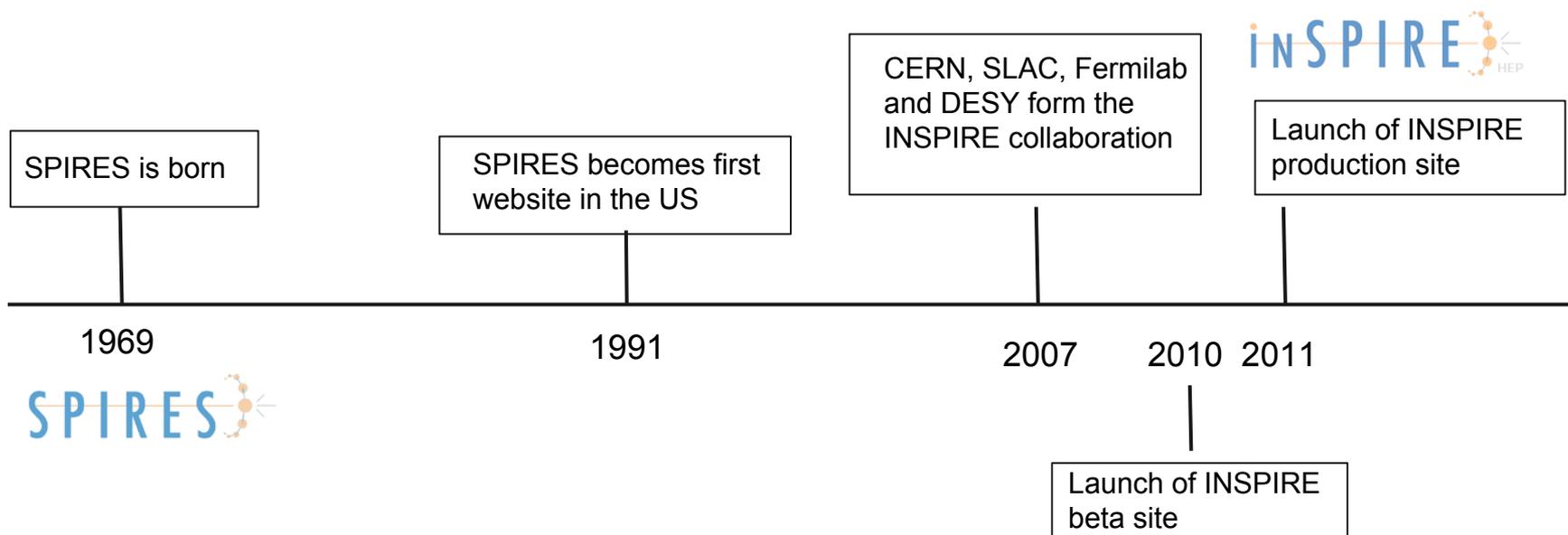




+ 20000 papers/year from theorists

A bit of **history** about INSPIRE

INSPIRE's timeline



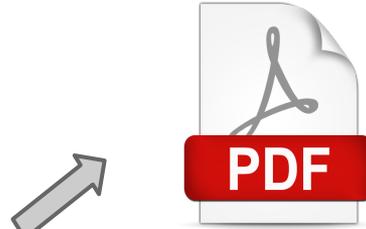
Why did we **move** from SPIRES to Invenio ?



What is INSPIRE's **focus** ?

Ingestion from arXiv

Oaiharvest module

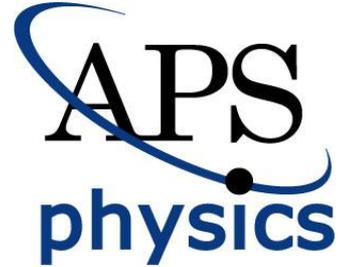


OAI-PMH

LATEX

+ attached files
(images)

Ingestion from publishers



Ad-hoc scripts that can be found in:

<https://github.com/inspirehep/harvesting-kit>

Curation

- Curated metadata for over 40 years
- Curation job is distributed in 4 labs
- Using Invenio curation web tools

Some examples

Record Editor

<https://inspirehep.net/record/edit/?ln=en#state=edit&recid=1300121>

Multiple Record Editor

<https://inspirehep.net/record/multiedit>

With a focus on **author information**

[View Profile](#)
[Manage Profile](#)
[Manage Publications](#)
[Help](#)

PERSONAL INFORMATION

Personal Details (HepNames)

Name	Salvatore Mele
Current Institution	CERN
E-mail	salvatore.mele@cern.ch
Links	https://phonebook.cern.ch/foun...
Experiments	CERN-LEP-L3
Identifiers	INSPIRE: INSPIRE-00302474 INSPIRE: ARXIV-MELE-S-1 BAI: S.Mele.1

Period	Rank	Institution
		CERN

[Update Details](#)

Name Variants

Mele, Salvatore (21)
Mele, S. (259)

Affiliations

CERN (37)
INFN, Naples (21)
Naples U. (10)

PUBLICATIONS AND OUTPUT

Publications Datasets External

1. Electroweak Measurements in Electron-Positron Collisions at W-Boson-Pair Energies at LEP
2. Search for Charged Higgs bosons: Combined Results Using LEP Data
3. Status Report of the DPHEP Study Group: Towards a Global Effort for Sustainable Data Preservation in High Energy Physics
4. Generalized event shape and energy flow studies in e^+e^- annihilation at $s^{1/2} = 91.2\text{-GeV} - 208.0\text{-GeV}$
5. Authormagic in INSPIRE Author Disambiguation in Scholarly Communication
6. Test of the τ -Model of Bose-Einstein Correlations and Reconstruction of the Source Function in Hadronic Z-boson Decay at LEP
7. Observation of a VHE cosmic-ray flare-signal with the L3+C muon spectrometer
8. Data Preservation at LEP
9. Data Preservation in High Energy Physics
10. SCOAP3: Where libraries, scientists and publishers meet repositories, peer-reviewed journals and Open Access

[Click here to see all](#)

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A.G.Holzner.1 (3)
A.Holtkamp.1 (3)
[more](#)

Papers

	All papers	Single authored
All papers	280	19
Book	0	0
ConferencePaper	25	16
Introductory	0	0
Lectures	0	0
Published	240	3
Review	14	1
Thesis	0	0
Proceedings	0	0

Subject Categories

Experiment-HEP (243)
Computing (10)
Phenomenology-HEP (10)

Frequent Keywords

CERN LEP Stor (226)
electron positron: colliding beams (225)
experimental results (223)

STATS

Citations Summary

280 papers found, 263 of them citeable (published or arXiv)

	Citeable papers	Published only
Number of papers analyzed:	263	240
Number of citations:	12944	11410
Citations per paper (average):	49	47
h_{HEP} index [?]	50	48

Breakdown of papers by citations:

	Citeable papers	Published only
Renowned papers (500+)	4	4
Famous papers (250-499)	2	0
Very well-known papers (100-249)	8	4
Well-known papers (50-99)	37	36
Known papers (10-49)	154	149
Less known papers (1-9)	52	44
Unknown papers (0)	6	3

Warning: The citations count should be interpreted with great care. [Read the fine print](#)

Publication Graph



bibauthorid: algorithm able to disambiguate author names

webauthorprofile: presents the information to the users

Reaching the **limits** of the current framework

and don't want to go back to...



So it is time to move to **Invenio 2.0**

GitHub <https://github.com/inveniosoftware/invenio/tree/next>

In order to have



Better user input

ID	Title	Identifier	Category	Created	Status	Type	Details	Actions
	Brief Review and Trust	inspire.org/1454-0034	cs-ai (arXiv)	an hour ago	reviewed	record	Details	Record needs approval View Edit Delete
	Lessons for SUSY from the LHC after the first run	inspire.org/1454-7181	hep-ex (arXiv)	an hour ago	reviewed	record	Details	Record needs approval View Edit Delete
	Disc. Spectra of 2-dimensional QCD-like theories	inspire.org/1454-0432	hep-th (arXiv)	an hour ago	reviewed	record	Details	Record needs approval View Edit Delete
	[LAMBDA] may not be vacuum energy after all	inspire.org/1454-0475	gr-qc (arXiv)	an hour ago	reviewed	record	Details	Record needs approval View Edit Delete
	Photon distribution amplitudes of light vector mesons	inspire.org/1454-0200	nucl-th (arXiv)	an hour ago	reviewed	record	Details	Record needs approval View Edit Delete
	Quantum-walled Brauer-Cottard superalgebra	inspire.org/1454-0443	math-RT (arXiv)	an hour ago	reviewed	record	Details	Record needs approval View Edit Delete

Better curation/back office tools



Better UX/UI

Better user input



Better user input

We have started using the new deposit module

<https://inspirelabstest.cern.ch/deposit/literature/>

10.1016/j.physletb.2012.11.073

And plan on using it for future corrections...

Better curation/back office tools

Show Records by: Actions ▾ Status ▾

Need action x Add tags

10 records per page Search:

<input type="checkbox"/>	Title	Identifier	Category	Created	Status	Type	Details	Actions
<input type="checkbox"/>	Belief Revision and Trust	oai:arXiv.org:1405.0034	cs.AI (arXiv)	an hour ago	Need action	record	Details	Record needs approval Reject Accept
<input type="checkbox"/>	Lessons for SUSY from the LHC after the first run	oai:arXiv.org:1404.7191	hep-ex (arXiv)	an hour ago	Need action	record	Details	Record needs approval Reject Accept
<input type="checkbox"/>	Dirac Spectra of 2-dimensional QCD-like theories	oai:arXiv.org:1405.0433	hep-lat (arXiv)	an hour ago	Need action	record	Details	Record needs approval Reject Accept
<input type="checkbox"/>	{ Λ may not be vacuum energy, after all	oai:arXiv.org:1404.0476	gr-qc (arXiv)	an hour ago	Need action	record	Details	Record needs approval Reject Accept
<input type="checkbox"/>	Parton distribution amplitudes of light vector mesons	oai:arXiv.org:1405.0289	nucl-th (arXiv)	an hour ago	Need action	record	Details	Record needs approval Reject Accept
<input type="checkbox"/>	Quantum walled Brauer-Clifford superalgebras	oai:arXiv.org:1404.0443	math.RT (arXiv)	an hour ago	Need action	record	Details	Record needs approval Reject Accept

Showing 1 to 6 of 6 entries

Better curation/back office tools

New **workflows** module

- Allows interaction with workflow objects for curators (i.e. accept/reject records)
- Flexible and customisable UI

Better UX/UI



UX is everything. Everything is UX.

New tools



Bower



Grunt

HEP Search

High-Energy Physics Literature Database

Use "find" for SPIRES-style search ([other tips](#))

Brief format [Easy Search](#) [Advanced Search](#)

[find "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 hep.0903,112
 find eprint arxiv:1007.5048 (Note the plots available on the detailed record)
 find fulltext "quark-gluon plasma" (Note new "fulltext" operator)
 find a ellis and refersto a witten (Note "refersto")
 find a kane and citedby title SUSY and topcite 200+ (Note "citedby")

New techniques:

1985 richter quark multiplicity
 arXiv:1007.5048
 citedby:author:ellis -refersto:author:witten
 author:randall | author:sundrum cited:450->1350

Additional Help:

[More search tips](#) and [full help](#)

INSPIRE UPDATES

See our blog at blog.inspirehep.net for updates on new features and other news. You can also follow us at [@inspirehep](https://twitter.com/inspirehep) on twitter. To send us feedback use feedback@inspirehep.net. The data in INSPIRE is updated daily. To request corrections to data in INSPIRE, write us at help@inspirehep.net. INSPIRE superseded SPIRES in 2012.

HEP

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feedback@inspirehep.net

RESOURCES

[ADS](#)
[arXiv](#)
[HepData](#)
[INIS](#)
[PDG](#)
[PDG review of online resources](#)

INSPIRE NEWS

2014-06-12 Discussion on challenges for persistent identifiers at #or2014 is in full swing! We're already tackling some of them! <http://t.co/p6GWBmPPEs>
 2014-06-12 For those not @ #or2014 but interested in INSPIRE's work for the ODN project, join us remotely. We start in 15 min <http://t.co/QWTAPhVR9W>
 2014-06-11 欢迎中国科学院高能物理研究所成为INSPIRE合作组新成员! <http://t.co/CO5Wpta1n9>



Will allow us to move away from the 90s

INSPIRE + Invenio 2.0 = INSPIRE Labs

(coming up in the next months)

<http://inspirelabstest.cern.ch>

