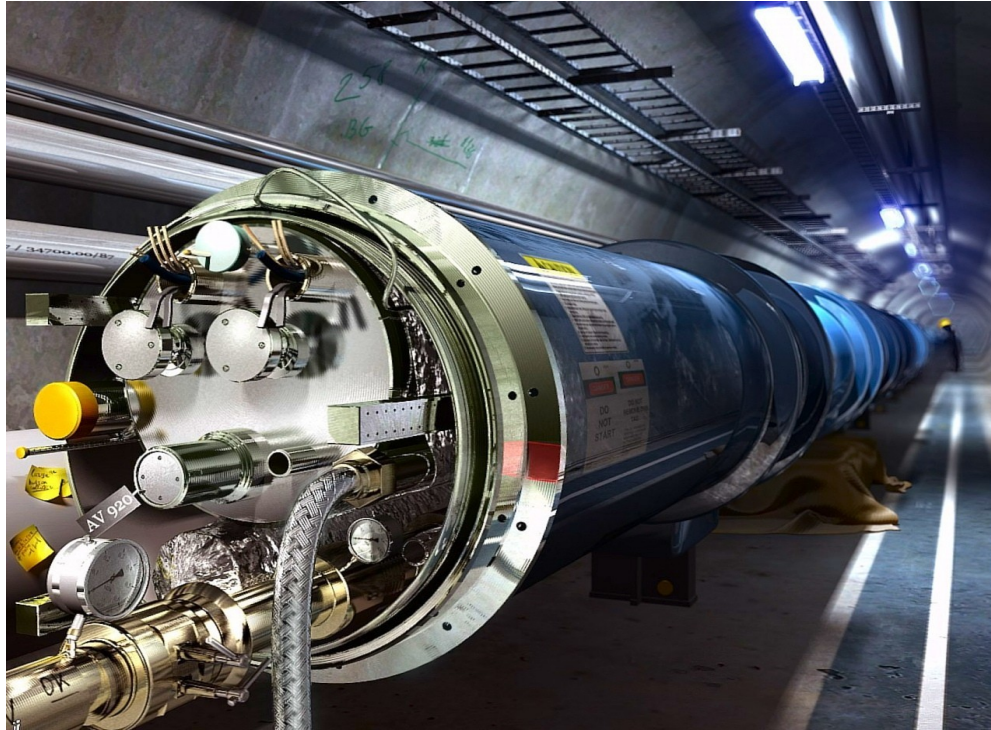


INSPIRE: contributions to Invenio from the leading High Energy Physics platform

Open Repositories 2014, Helsinki

Javier Martin Montull
on behalf of the INSPIRE collaboration

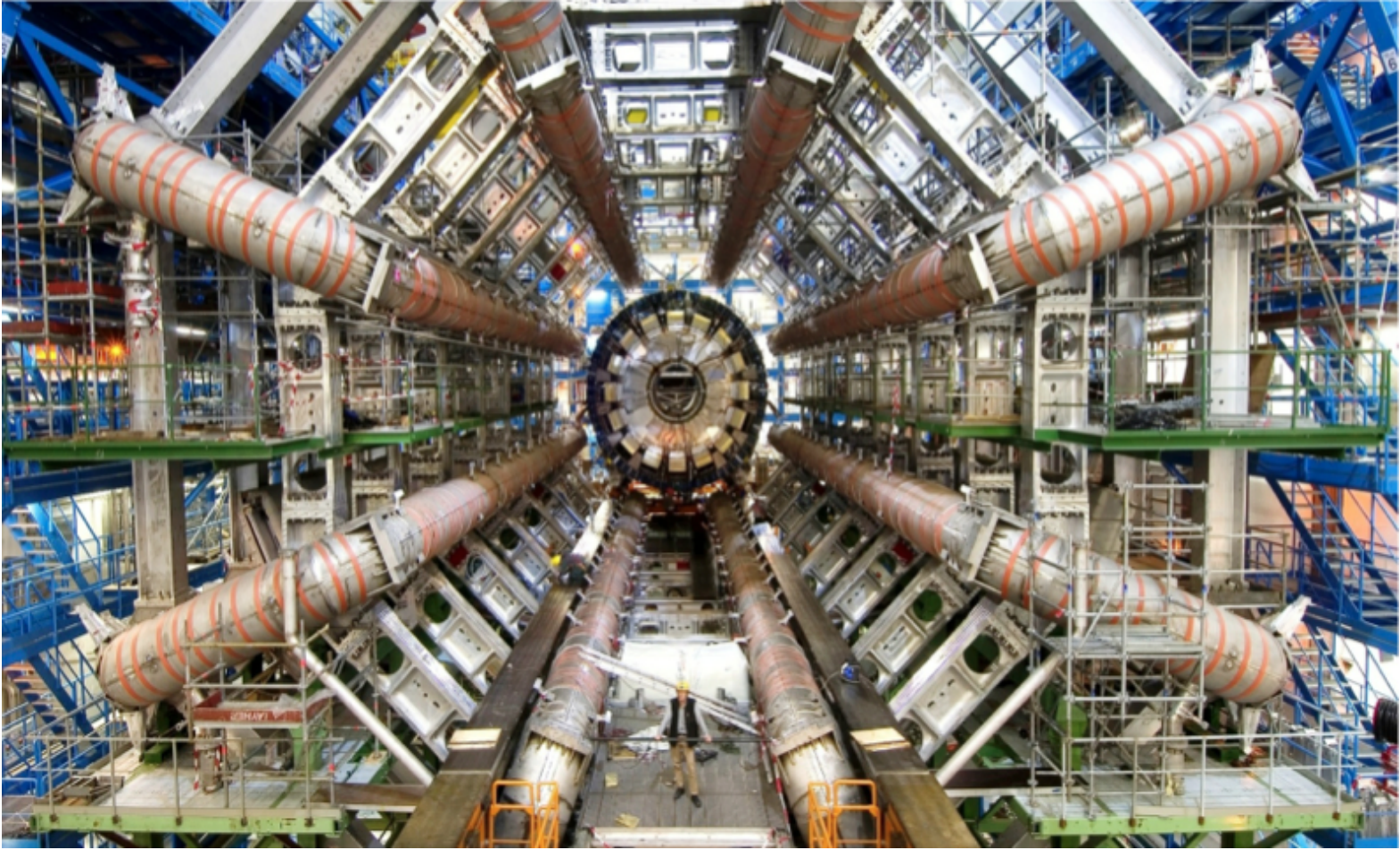
HEP (High Energy Physics) ?



Who are our **users**?

~50.000 users (HEP scientists)

~2 searches/sec

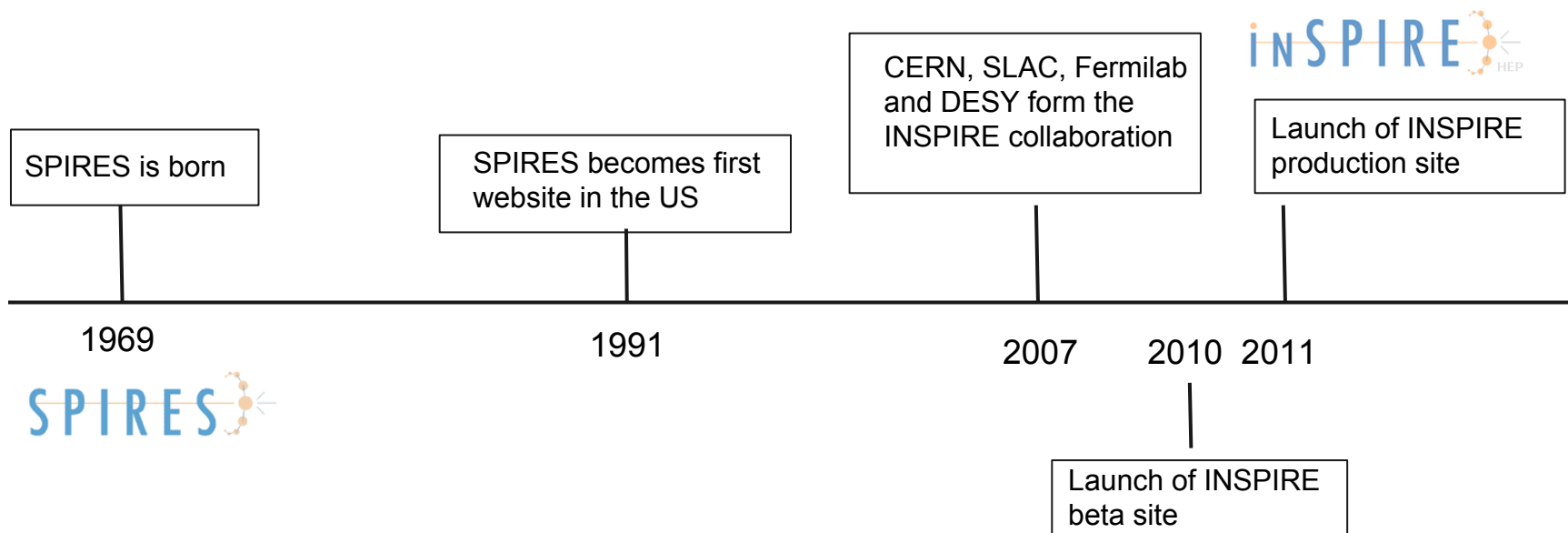




+ 20000 papers/year from theorists

A bit of **history** about INSPIRE

INSPIRE's timeline

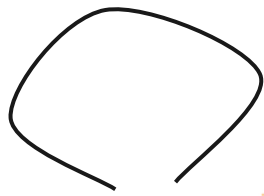


Why did we **move** from SPIRES to Invenio ?



What is INSPIRE's **focus** ?

Ingest content



Curate/enrich metadata
(manually and automatically)



Present the information to the user

The screenshot shows a user profile for 'Mele, Salvatore' on the INSPIRE platform. It includes sections for Personal Information, Publications and Output, Co-Authors, and a Citations Summary table.

280 papers found: 265 of them citable (published or open)	Citable papers	Published only
Number of papers analyzed:	282	240
Number of citations:	12644	11410
Citations per paper (average):	45	47
h ₂ g Index [?]	90	89

	Citable papers	Published only
Renowned papers (350+)	4	4
Famous papers (250-499)	2	0
Very well known papers (100-249)	8	4
Well known papers (50-99)	27	28
Known papers (10-49)	154	149
Less known papers (1-9)	52	44
Unknown papers (0)	6	3

Ingest content



Curate/enrich metadata
(manually and automatically)

Present the information to the user

Mele, Salvatore

[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 <http://hepnames.cern.ch/Mele>

Experiments CERN-LEP-L3

Identifiers INSPIRE: 00302474

INSPIRE: ADVANCED-0-1

ISI: S.Mele.1

Period Rank Institution

CERN

[Update Details](#)

Name Variants

Mele, Salvatore (1)

Mele, S. (11)

Affiliations

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. Study Report of the CHARM Study Group: Towards a Global Effort for Sustainable Data Preservation in High Energy Physics and Energy Flow Studies in e+e- Annihilation at e+e- Colliders - 1993-1998-9
4. Authorship in INSPIRE: Author Disambiguation in Scholarly Communication
5. Test of the Backdraft(*) Model of Solar System Comets and Reconstruction of the Source
6. Evidence for Indirect CP-Violation in B0 to J/psi K0 Decays
7. Contributions of the L3 Collaboration to the LEP-1/2 Data
8. Data Preservation at LEP
9. Data Preservation in High Energy Physics
10. SCOPUS: Where Journals, Scientists and Publishers meet researchers, peer-reviewed journals and Open Access

[Click here to see all](#)

Co-Authors

L. Mele (1)

C. Mele (1)

N. Mele (1)

P. Mele (1)

A. Mele (1)

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A. Mele (1)

A. Mele (1)

Papers

All papers

All papers/Single authored

Book

Conference paper

Letter

Published

Preprint

Review

Thesis

Unpublished

Working Paper

Other

Other

Other

Other

Other

Other

Other

Other

Other

Other

Other

Other

Other

Other

Other

Profile Name Search

2014-05-11 17:42:19

STATS

Citations Summary

280 papers found: 263 of them citable (published or open)

Number of papers analyzed: 282 280

Number of citations: 12644 11410

Citations per paper (average): 45 47

h-index [1]: 50 49

Breakdown of papers by citations:

Renowned papers (500+) 4 4

Famous papers (250-499) 2 0

Very well known papers (100-249) 8 4

Well known papers (50-99) 27 28

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 full page.



Ingestion from arXiv

Oaiharvest module



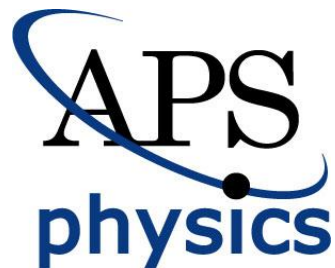
OAI-PMH



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>

Ingest content



Curate/enrich metadata
(manually and automatically)



Present the information to the user

The screenshot shows a user profile for 'Mele, Salvatore' on the INSPIRE HEP platform. The page is divided into several sections: 'Personal Information', 'Publications and Output', 'Citations Summary', 'Co-Authors', and 'Papers'. The 'Publications and Output' section lists 10 publications, including 'Electroweak Measurements in Electron-Positron Collisions at W Boson Pair Energies at LEP', 'Search for Charged Higgs Bosons: Combined Results Using LEP Data', 'Single Top of the CP-odd Study Group: Towards a Global Effort for Sustainable Data Presentation in High Energy Physics and beyond (New studies in e+e- annihilation at sqrt(s) = 1.82 GeV - 2018-2019)', 'Advantage in INSPIRE: Author Disambiguation in Scholarly Communication', 'Test of the Backkraft(*) Model of Bose-Einstein Correlations and Reconstruction of the Source Function in Hadronic Collisions Using ATLAS', 'Evaluation of the Correlation Coefficient with the LHC-Run Reconstruction', 'Data Presentation at LEP', 'Data Presentation in High Energy Physics', and 'SCOPUS: Where Reviewers, Scientists and Publishers meet requirements, peer-reviewed journals and Open Access'. The 'Citations Summary' section shows 280 papers found, 265 of them citable (published or open). It includes a table with columns for 'Citable papers' and 'Published only', and rows for 'Number of papers analyzed', 'Number of citations', 'Citations per paper (average)', and 'h-index [?]'.

	Citable papers	Published only
Number of papers analyzed:	282	230
Number of citations:	12644	11410
Citations per paper (average):	48	47
h-index [?]	90	88

Breakdown of papers by citations:	Citable 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)	27	28
Known papers (10-49)	154	149
Less known papers (1-9)	52	44
Unknown papers (0)	6	3

With a focus on **author information**

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 $\boldsymbol{\tau}$ -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](#)

Co-Authors

L.Lista.1 (5)
C.Sciacca.1 (4)
G.Carlino.1 (4)
N.Cavallo.1 (4)
P.Igo.Kemenes.1 (4)
P.Paolucci.1 (4)
A.Buzzo.1 (3)
A.Calcaterra.1 (3)
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 Add Remove
	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 Add Remove
	Disc: Spinors in 2-dimensional QCD-like theories	inspire.org/1454-0432	hep-th (arXiv)	an hour ago	Reviewed	record	Details	Record needs approval Add Remove
	[LAMBDA] may not be vacuum energy after all	inspire.org/1454-0475	gr:gc (arXiv)	an hour ago	Reviewed	record	Details	Record needs approval Add Remove
	Photon distribution amplitudes of light vector mesons	inspire.org/1454-0200	nucl-th (arXiv)	an hour ago	Reviewed	record	Details	Record needs approval Add Remove
	Quantum-walled Bruesen-Cifuentes superposition	inspire.org/1454-0443	math-RT (arXiv)	an hour ago	Reviewed	record	Details	Record needs approval Add Remove

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 Search [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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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>

