

The ins and outs of INSPIRE

Beijing, 26 November 2018

Micha Moskovic, CERN Scientific Information Service



INSPIRE in a nutshell

- Main HEP information platform
- Freely available, run by 5 institutions (+partners)



*Institute of High Energy Physics
Chinese Academy of Sciences*



<http://inspirehep.net>

History

- SPIRES (1974-2012): network of databases (literature, authors, conferences, jobs, institutions, experiments)
- 1991: first database on the web, first website in USA
- INSPIRE (2012)
 - Same content
 - Same look & feel
 - Based on Invenio software developed at CERN
- Future (2019?): Inspire labs
 - Complete rewrite
 - Modern web interface

Some numbers

- 50K active users
- 1.3M bibliographic records (HEP)
 - arXiv preprints
 - Published papers
 - Theses
 - Conference proceedings
- 120K author records (HEPNames)
- 23M citations
- 200K searches/day

HEP Search

High-Energy Physics Literature Database

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

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

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](#)

[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](#)

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Literature

Finding & displaying papers

Searching on INSPIRE: syntax

3 ways to search:

- SPIRES-like syntax:

`f cn BESIII and t charmoniumlike`

- Invenio syntax:

`collaboration:BESIII title:charmoniumlike`

- no syntax (searches in many different fields):

`BESIII charmoniumlike`

Searching on INSPIRE: keywords

Many keywords available:

- Author (finds compatible names):
`f a Moskovic, Micha`
- Title words:
`f t supergravity`
- Topcite (select number of citations):
`f topcite 100->1000`
- Author count (select number of authors):
`f ac 5+`
- Journal (title, volume, page/article ID):
`f j JHEP 1404 148`

Searching on INSPIRE: keywords

- Collaboration:
`f cn BESIII`
- arXiv eprint number:
`f eprint 1811.08028`
- arXiv primary category:
`f primarch hep-ph`
- doi:
`f doi 10.1103/PhysRevD.98.072003`

And many more!

Searching on INSPIRE: operators

Use operators to build more powerful searches:

- Boolean (**and/or/not**):
`f a Moskvic and t instanton`
- Parentheses for precedence:
`f a Moskvic and (t instanton or t chiral)`
- Ranges (**->/+/</>**):
`f topcite 100+ and date 2017->2018`
- Quoting for phrases:
`f t "higgs potential"`
- Wildcard (*****):
`f eprint 1811.* and primarch hep-*`

Searching on INSPIRE: second order

Second order searches allow to find record citing/cited by another set of records corresponding to a search query:

- Refers to:

`f ac 1->10 and refersto cn BESIII`

- Cited by:

`f date > 2017 and citedby a witten`

HEP Search

High-Energy Physics Literature Database

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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[arXiv:1007.5048](#)

[citedby:author:ellis -refersto:author:witten](#)

[author:randall | author:sundrum cited:450->1350](#)

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Changing display of results

- Ordering by number of citations

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

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

Sort by: Display results:

earliest date desc. - or rank by - 25 results single list

- Changing output format
 - BibTeX for citing in paper
 - CV formats for CV
 - Citesummary for citation statistics



Brief format

- Detailed format
- Citesummary
- LaTeX (EU)
- LaTeX (US)
- BibTeX
- CV format (LaTeX)
- CV format (html)
- CV format (text)
- Harvmac
- RefWorks
- EndNote

[never \(fulltext available\)](#)

Abstract (arXiv)

We study the hadronic decays of Λ_c^+ to the final states $\Sigma^+\eta$ and $\Sigma^+\eta'$, using an e^+e^- annihilation data sample of 567 pb^{-1} taken at a center-of-mass energy of 4.6 GeV with the BESIII detector at the BEPCII collider. We find evidence for the decays $\Lambda_c^+ \rightarrow \Sigma^+\eta$ and $\Sigma^+\eta'$ with statistical significance of 2.5σ and 3.2σ , respectively. Normalizing to the reference decays $\Lambda_c^+ \rightarrow \Sigma^+\pi^0$ and $\Sigma^+\omega$, we obtain the ratios of the branching fractions $\frac{\mathcal{B}(\Lambda_c^+ \rightarrow \Sigma^+\eta)}{\mathcal{B}(\Lambda_c^+ \rightarrow \Sigma^+\pi^0)}$ and $\frac{\mathcal{B}(\Lambda_c^+ \rightarrow \Sigma^+\eta')}{\mathcal{B}(\Lambda_c^+ \rightarrow \Sigma^+\omega)}$ to be $0.35 \pm 0.16 \pm 0.03$ and $0.86 \pm 0.34 \pm 0.07$, respectively. The upper limits at the 90% confidence level are set to be $\frac{\mathcal{B}(\Lambda_c^+ \rightarrow \Sigma^+\eta)}{\mathcal{B}(\Lambda_c^+ \rightarrow \Sigma^+\pi^0)} < 0.58$ and $\frac{\mathcal{B}(\Lambda_c^+ \rightarrow \Sigma^+\eta')}{\mathcal{B}(\Lambda_c^+ \rightarrow \Sigma^+\omega)} < 1.2$. Using BESIII measurements of the branching fractions of the reference decays, we determine $\mathcal{B}(\Lambda_c^+ \rightarrow \Sigma^+\eta) = (0.41 \pm 0.19 \pm 0.05)\%$ ($< 0.68\%$) and $\mathcal{B}(\Lambda_c^+ \rightarrow \Sigma^+\eta') = (1.34 \pm 0.53 \pm 0.21)\%$ ($< 1.9\%$). Here, the first uncertainties are statistical and the second systematic. The obtained branching fraction of $\Lambda_c^+ \rightarrow \Sigma^+\eta$ is consistent with the previous measurement, and the branching fraction of $\Lambda_c^+ \rightarrow \Sigma^+\eta'$ is measured for the first time.

Note: * Temporary entry *

Record added 2018-11-21, last modified 2018-11-21

Observation of a Charged Charmoniumlike Structure in $e^+e^- \rightarrow \pi^+\pi^- J/\psi$ at $\sqrt{s} = 4.26$ GeV - BESIII Collaboration (Ablikim, M. *et al.*) Phys.Rev.Lett. 110 (2013) 252001 arXiv:1303.5949 [hep-ex]

Cited by: 613 records

(526) **Study of $e^+e^- \rightarrow \pi^+\pi^- J/\psi$ and Observation of a Charged Charmoniumlike State at Belle** - Belle Collaboration (Liu, Z.Q. *et al.*) Phys.Rev.Lett. 110 (2013) 252002 arXiv:1304.0121 [hep-ex] BELLE-PREPRINT-2013-6, KEK-PREPRINT-2013-2

(319) **The hidden-charm pentaquark and tetraquark states** - Chen, Hua-Xing *et al.* Phys.Rept. 639 (2016) 1-121 arXiv:1601.02092 [hep-ph]

(308) **QCD and Strongly Coupled Gauge Theories: Challenges and Perspectives** - Brambilla, N. *et al.* Eur.Phys.J. C74 (2014) no.10, 2981 arXiv:1404.3723 [hep-ph] CCQCN-2014-24, CCTP-2014-5, CERN-PH-TH-2014-033, DF-1-2014, HIP-2014-03-TH, ITEP-LAT-2014-1, JLAB-THY-14-1865, MITP-14-016, NT@UW-14-04, RUB-TPII-01-2014, TUM-EFT-46-14, FERMILAB-PUB-14-024-T, LLNL-JRNL-651216, UWTHPH-2014-006

(301) **Observation of the resonant character of the $Z(4430)^-$ state** - LHCb Collaboration (Aaij, Roel *et al.*) Phys.Rev.Lett. 112 (2014) no.22, 222002 arXiv:1404.1903 [hep-ex] LHCb-PAPER-2014-014, CERN-PH-EP-2014-061

(299) **Observation of a Charged Charmoniumlike Structure $Z_c(4020)$ and Search for the $Z_c(3900)$ in $e^+e^- \rightarrow \pi^+\pi^- h_c$** - BESIII Collaboration (Ablikim, M. *et al.*) Phys.Rev.Lett. 111 (2013) no.24, 242001 arXiv:1309.1896 [hep-ex]

[more](#)

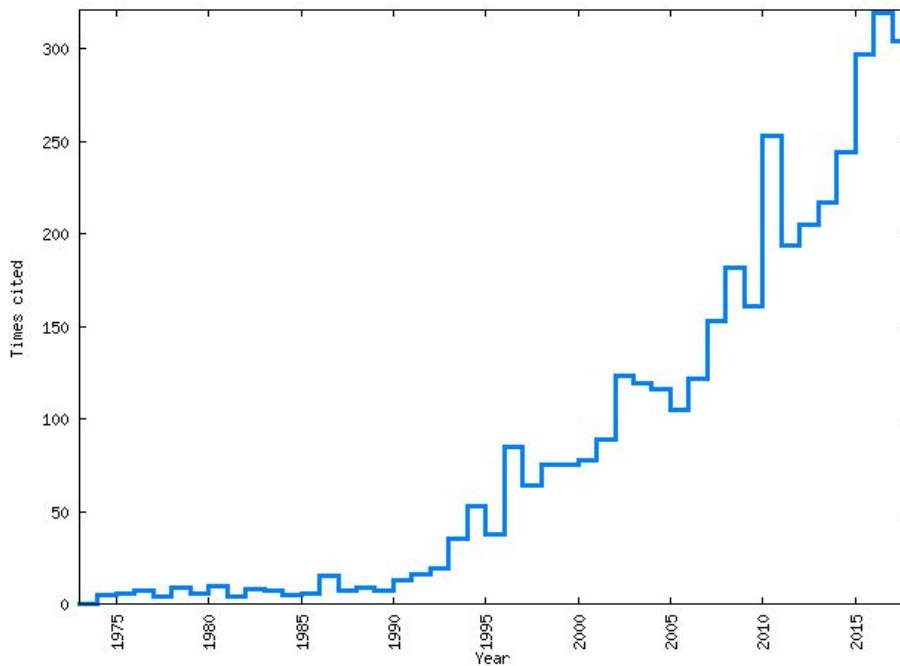
.. of which self-citations: 145 records

(299) **Observation of a Charged Charmoniumlike Structure $Z_c(4020)$ and Search for the $Z_c(3900)$ in $e^+e^- \rightarrow \pi^+\pi^- h_c$** - BESIII Collaboration (Ablikim, M. *et al.*) Phys.Rev.Lett. 111 (2013) no.24, 242001 arXiv:1309.1896 [hep-ex]

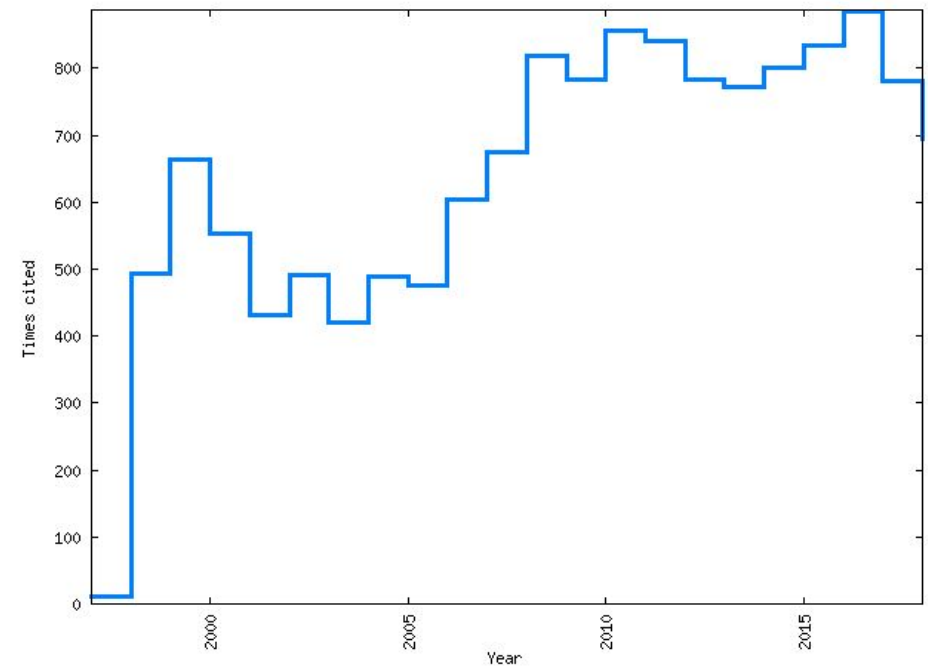
(266) **Observation of a charged charmoniumlike structure in $e^+e^- \rightarrow (D^* \bar{D}^*)^\pm \pi^\mp$ at $\sqrt{s} = 4.26$ GeV** - BESIII Collaboration (Ablikim, M. *et al.*) Phys.Rev.Lett. 112 (2014) no.13, 132001 arXiv:1308.2760 [hep-ex]

Citation graphs

At bottom of citation page, interesting statistics



<https://inspirehep.net/record/80985/citations>



<https://inspirehep.net/record/451647/citations>

Authors

Finding, correcting and connecting profiles

Moskovic, Micha

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PERSONAL INFORMATION

PUBLICATIONS AND OUTPUT

Personal Details (HepNames)

Name	Micha Moskovic
Current Institution	CERN
E-mail	micha.moshe.moskovic@cern.ch
Fields	HEP-TH
Identifiers	BAI: M.Moskovic.1 INSPIRE: INSPIRE-00391618 ORCID: 0000-0002-7638-5686

Period	Rank	Institution
2016	PD	CERN
2014 – 2016	PD	INFN, Turin
2010 – 2014	PHD	Brussels U., PTM

Publications Datasets External

- [Review of Particle Physics](#)
- [Instanton Corrections for \$m\$ and \$\Omega\$](#)
- [Chiral observables and S-duality in \$N = 2^* U\(N\)\$ gauge theories](#)
- [Holographic backgrounds from D-brane probes](#)
- [D-instanton probe and the enhançon mechanism from a quiver gauge theory](#)
- [Emergent D4-Brane Background from D-Particles](#)
- [Examples of Emergent Type IIB Backgrounds from Matrices](#)
- [Boucles de Wilson et localisation en théorie des champs supersymétrique](#)

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Co-Authors

- [Frank.Ferrari.1](#) (2)
- [A.Lerda.1](#) (1)
- [A.Rovai.1](#) (1)
- [A.Zein.assi.1](#) (1)
- [E.Conde.1](#) (1)
- [E.Dell.Aquila.1](#) (1)
- [M.Frau.1](#) (1)

Papers

	All papers	Single authored
All papers	8	2
Book	0	0
ConferencePaper	0	0
Introductory	0	0
Lectures	0	0

Author profiles

From paper:

2. Instanton Corrections for m and Ω

[Micha Moskovic](#) (INFN, Turin & Turin U.), Ahmad Zein Assi (ICTP, Trieste). Dec 19, 2016. 19 pp.

Published in *Nucl.Phys. B* **920** (2017) 601-619

DOI: [10.1016/j.nuclphysb.2017.05.003](https://doi.org/10.1016/j.nuclphysb.2017.05.003)

e-Print: [arXiv:1612.06414](https://arxiv.org/abs/1612.06414) [hep-th] | [PDF](#)

[References](#) | [BibTeX](#) | [ADS Abstract Service](#); [ADS](#)

[Detailed record](#) - [Cited by 3 records](#)

From HEPNames:

HEP :: [HEPNames](#) :: INSTITUTIONS :: CO

a moskovic

[find author ellis and field hep-th](#)

Sort by:

exact first author

asc.

- or rank by -

Display results:

25 results

single list

Output format:

Brief format

[HepNames](#)

1 records found

1. [Micha Moskovic](#) (CERN) [\[Author Profile\]](#)

micha.moshe.moskovic@cern.ch

HEP-TH

[Detailed record](#)



The author disambiguation problem

- To be useful, one profile should contain **all** papers of **one single** author
- Easy case: only one “Moskovic, M.”
- Hard case: “Zhang, J.”

172	J.Zhang.8	Zhang, Jingxi	Recent Papers	Go to Profile (J.Zhang.8)
173	J.Zhang.24	Zhang, Juyong	Recent Papers	Go to Profile (J.Zhang.24)
174	J.Zhang.14	Zhang, Jiehao	Recent Papers	Go to Profile (J.Zhang.14)
175	J.Zhang.34	Zhang, Juping	Recent Papers	Go to Profile (J.Zhang.34)
176	J.Zhang.1	Zhang, Jianfu	Recent Papers	Go to Profile (J.Zhang.1)
177	J.Zhang.47	Zhang, Junwei	Recent Papers	Go to Profile (J.Zhang.47)
178	J.Zhang.71	Zhang, Junjie	Recent Papers	Go to Profile (J.Zhang.71)
179	J.Zhang.44	Zhang, Jingye	Recent Papers	Go to Profile (J.Zhang.44)
180	J.Zhang.29	Zhang, Jifang	Recent Papers	Go to Profile (J.Zhang.29)
181	Jinlong.Zhang.1	Zhang, Jinlong	Recent Papers	Go to Profile (Jinlong.Zhang.1)

Disambiguating authors

- Solving this requires lots of work from INSPIRE staff



- Good news, you can help make INSPIRE better!



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Personal Details (HepNames)

There is no HepNames record associated with this profile.

Create One
I am able to provide INSPIRE with some details.

PERSONAL INFORMATION


Personal Details (HepNames)

Name	Jian Zhang
Current Institution	Liaoning Normal U.
E-mail	zhangjianphy@aliyun.com
Fields	HEP-PH
Identifiers	BAI: Jian.Zhang.2 INSPIRE: INSPIRE-00748233 ORCID: 0000-0002-7897-8469

Period	Rank	Institution
		Liaoning Normal U.

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Zhang, Jian

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Updating INSPIRE: claiming papers

Zhang, Jin-Li

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Papers (4)

Papers removed from this profile (0)

Tickets (0)

Data

Select All | Select None | Invert Selection | Hide successful claims

Yes, those papers are by this person.

No, those papers are not by this person

Search:

Paper Short Info	Author Name	Affiliation	Date	Experiment	Actions
------------------	-------------	-------------	------	------------	---------

1. **Proper time regularization at finite quark chemical potential**

Jin-Li Zhang (Nanjing U.), Yuan-Mei Shi (Nanjing U. & Nanjing, Xiaozhuang Coll.),
 Shu-Sheng Xu (Nanjing U. & Beijing, Inst. Theor. Phys.), Hong-Shi Zong (Nanjing U. & Joint Ctr. Part. Nucl. Phys. Cosmol.,

Zhang, Nanjing
Jin-Li U. 2016-04-28N.A.

Yes, this paper is by this person.

No, this paper is not by this person

Automatic disambiguation: ORCID

- ORCID provides a unique identifier for researchers

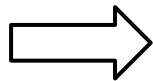
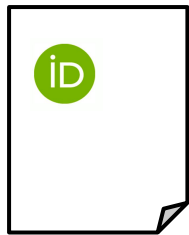
<https://orcid.org>

Micha Moskovic

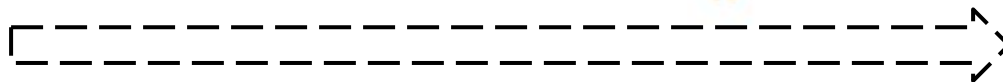
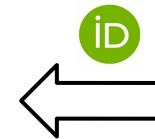
ORCID ID

 <https://orcid.org/0000-0002-7638-5686>

- Get an ORCID, add it to INSPIRE and give it to publishers & arXiv



INSPIRE  HEP



1. Connect your ORCID:

Zhang, Jun-Song

Profile Name



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ORCID

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[Export your publications to ORCID](#)



▼ Works (7 of 7)

↕ Sort

Instanton Corrections for m and Ω

Nucl.Phys.B

2017-07 | journal-article

DOI: [10.1016/j.nuclphysb.2017.05.003](https://doi.org/10.1016/j.nuclphysb.2017.05.003)

ARXIV: [1612.06414](https://arxiv.org/abs/1612.06414)

Source: INSPIRE-HEP

 Preferred source



Chiral observables and S-duality in $N = 2^* U(N)$ gauge theories

JHEP

2016-11-04 | journal-article

DOI: [10.1007/JHEP11\(2016\)020](https://doi.org/10.1007/JHEP11(2016)020)

ARXIV: [1607.08327](https://arxiv.org/abs/1607.08327)

Source: INSPIRE-HEP

 Preferred source



D-instanton probe and the enhancement mechanism from a quiver gauge theory

JHEP

2014 | journal-article



And More

Correcting literature, finding jobs, and the future of INSPIRE

Updating INSPIRE: references

- Sometimes, some citations are missing
- Possible to suggest corrections to references of **citing** paper

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Information **References (23)** Citations (0) Files Plots

Evidence for the decays of $\Lambda_c^+ \rightarrow \Sigma^+ \eta$ and $\Sigma^+ \eta'$ - BESIII Collaboration
(Ablikim, M. *et al.*) arXiv:1811.08028 [hep-ex]

Update these references

- [1] [Constituent quark model analysis of weak mesonic decays of charm baryons](#) - Uppal, T. *et al.* Phys.Rev. D49 (1994) 3417-3425
- [2] [Cabibbo favored nonleptonic decays of charmed baryons](#) - Xu, Q.P. *et al.* Phys.Rev. D46 (1992) 270-278 ALBERTA THY 8 02

Updating INSPIRE: adding papers

- When a paper is not in INSPIRE, possible to suggest it for inclusion



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After login with ORCID

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This form allows you to suggest a preprint, an article, a book, a conference proceeding or a thesis you'd like to see added to INSPIRE. We will check your suggestion with our [selection policy](#) and transfer it to INSPIRE.

Import information

TIP: Fill in both fields to automatically import more data. This will save you time!

arXiv ID

e.g. hep-th/9711200 or 1207.7235 or arXiv:1001.4538

DOI

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High-Energy Physics Employment Database

A listing of academic and research jobs of interest to the community in high energy physics, nuclear physics, accelerator physics and astrophysics.

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Postdoc
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Visiting Scientist

Region:

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Asia
Australasia
Europe
Middle East

Field:

astro-ph
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cs
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Ctrl + click to select multiple
Ctrl + click existing to remove
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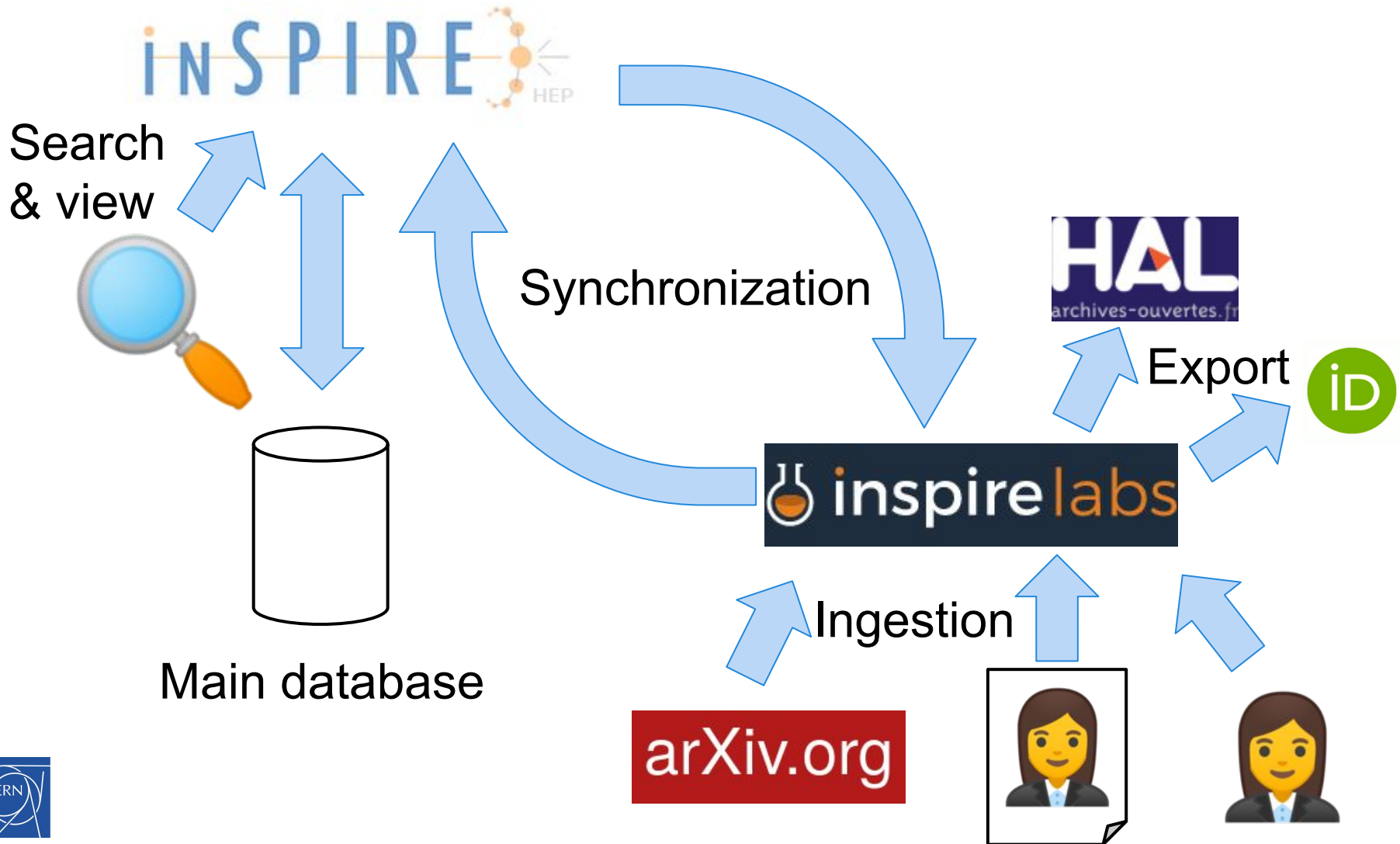
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The future of INSPIRE: labs

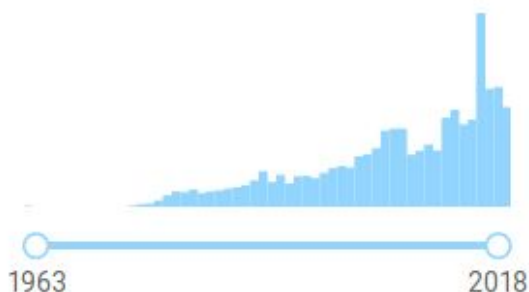
- Technical limitations with current INSPIRE platform
- New “inspire labs” in development
- Already in use for some things
- Will completely replace existing INSPIRE in the coming years

Labs: current status



Date

Reset



Number of authors

10 authors or less

7359

Author

Bocci, Andrea

1612

Zhang, J.

1213

Zhang, Z.P.

1210

Bona, Marcella

1159

13319 results found.

Most Recent

The on-orbit calibration of DARK Matter Particle Explorer

DAMPE Collaboration • G. Ambrosi (*INFN, Perugia*) et al.

Nov 15, 2018

Published in: *Astropart.Phys.* 106 (2019) 18-34

DOI: [10.1016/j.astropartphys.2018.10.006](https://doi.org/10.1016/j.astropartphys.2018.10.006)

The DARK Matter Particle Explorer (DAMPE), a satellite-based cosmic ray and gamma-ray detector, was launched on December 17, 2015, and began its on-orbit operation on December 24, 2015. In this work we document the on-orbit calibration procedures use...

[cite](#) [edit](#)

[51 references](#)

[0 citations](#)

Search for Higgs boson pair production in the $b\bar{b}WW^*$ decay mode at $\sqrt{s} = 13$ TeV with the ATLAS detector

ATLAS Collaboration • Morad Aaboud (*Oujda U.*) et al.

Nov 12, 2018

e-Print: [1811.04671](https://arxiv.org/abs/1811.04671) [hep-ex]

Report number: CERN-EP-2018-237

A search for Higgs boson pair production in the $b\bar{b}WW^*$ decay mode is performed in the

Labs: improvements

- More accurate search
- Easier filtering of results with facets
- Better user profiles
- Easier to use update forms
- Machine Learning algorithms for better author disambiguation

Other useful resources

- HEPData: <https://hepdata.net>
Data from tables in experimental HEP publications
- Review of Particle Physics: <http://pdg.lbl.gov>
Comprehensive information on particle physics (data about particles, reviews)

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谢谢!