如何充分利用INSPIRE数据库的核心功能

中国科学院·高能物理研究所

文献信息部·江亚欧

2019.9.27·合肥·中科大

提纲

2019年安徽合肥中国科学技术大学

为什么需要深入了解INSPIRE数据库

2016 年推荐国家自然科学奖公示

项目名称：　大亚湾反应堆中微子实验发现新的中微子振荡模式

推荐单位：中国科学院

客观评价： 高能物理数据库INSPIRE记录他引次数为1313次

大亚湾实验的物理成果在国际高能物理界引起了强烈的反响：

2、截至目前，本实验发现新的中微子振荡模式的代表性论文 SCI 他引次数为 695 次，高能物理数据库 INSPIRE 记录他引次数为 1313 次，是粒子物理领域 2011 年以来发表的引用率第 3 的科学论文（前两名为欧洲核子中心 ATLAS 和 CMS 实验 2012 年发现希格斯粒子的论文）。

一．学者科研活跃度的展示

二．重要科研成果报奖的客观评价依据

目前被引2179

三．国际合作的专业维护团队

愿景使命：方便INSPIRE数据库的用户发现和获取高能物理领域学术资源
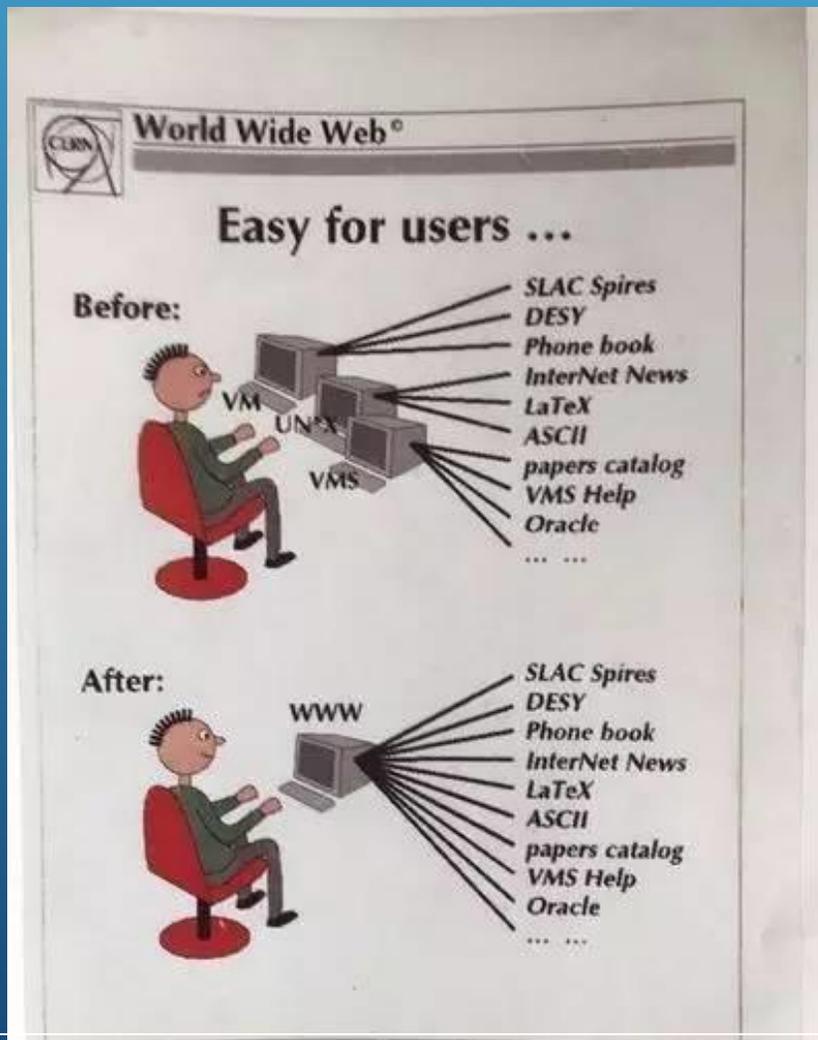

https://inspirehep.net/

2019年安徽合肥中国科学技术大学

SPIRES becomes 1ˢᵗ website in the US

1991

Tim Berners-Lee送的讲稿胶片，图片来源：许榕生

DAILY WORKING PLATFORM FOR PHYSICISTS

Core collections of all forms of phys. literatures

Most prompt indicator for personal academic status
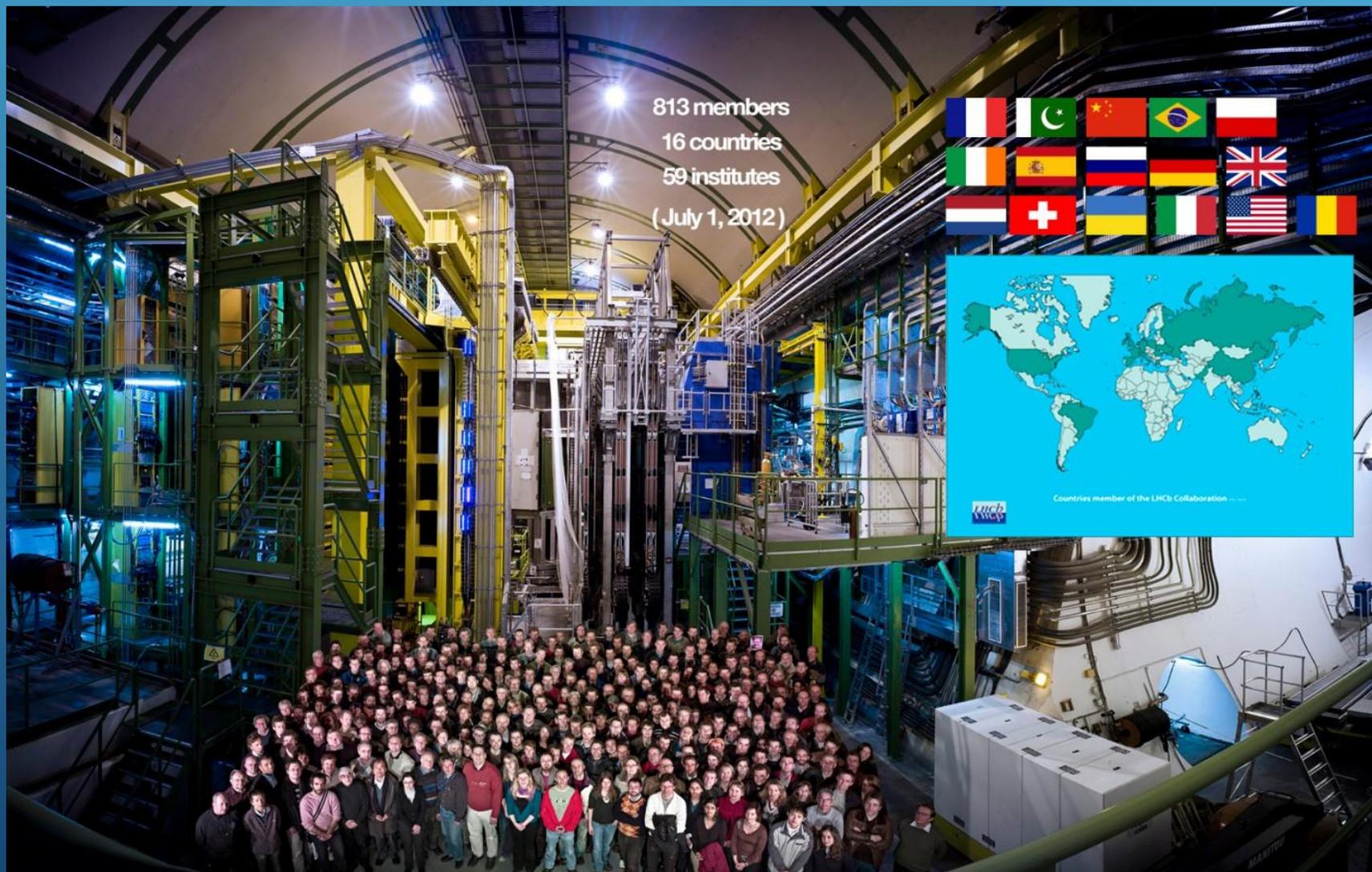
HEP Jobs & Conf. Calender

Maintained by professional working groups

INSPIRE: the most complete academic resources

Guided by Advisory Board of senior scientists with high academic records
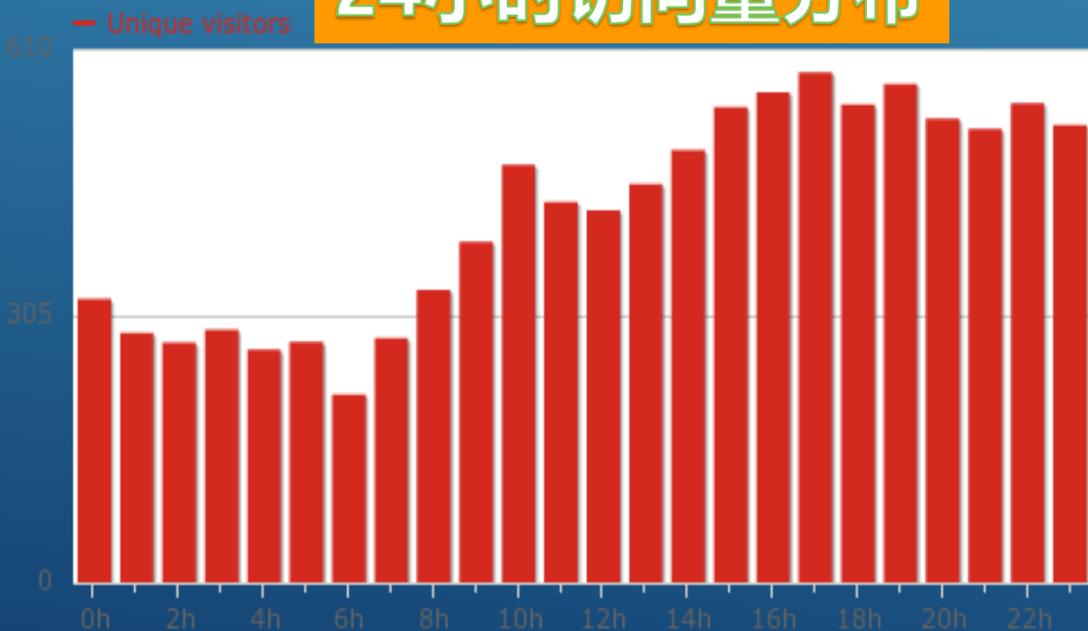
用户： 实验物理学家、理论物理学家、天体物理学家

区域分布
美国
中国
德国

图片来源：CERN

用户： 活跃用户50K+

活跃频度：
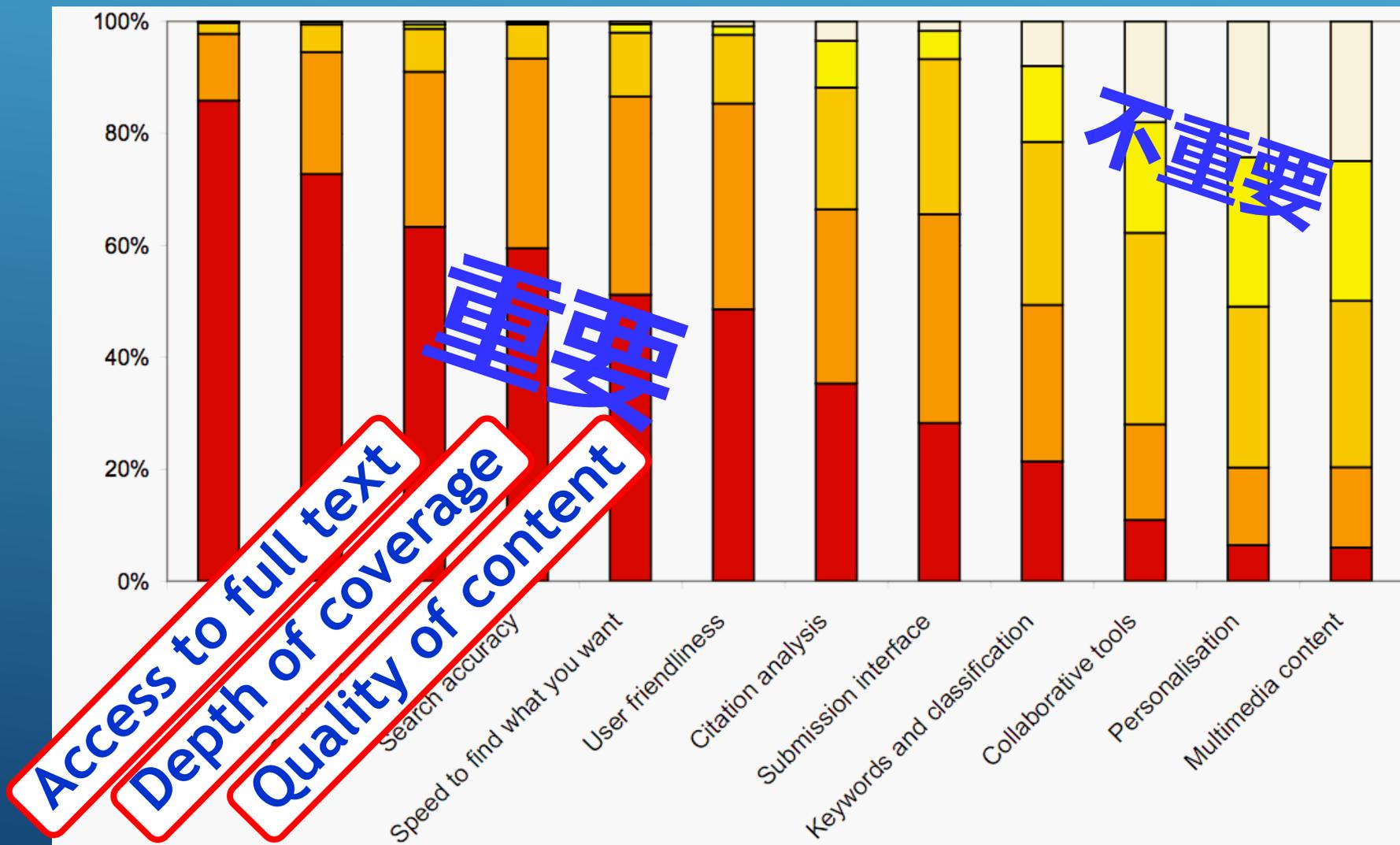①、检索：一个月内600万次的访问；每天检索20万次+
②、反馈：一年近10万条用户反馈。

24小时访问量分布

月度访问量分布

用户关注的功能

重要

不重要

Access to full text
Depth of coverage
Quality of content
Search accuracy
Speed to find what you want
User friendliness
Citation analysis
Submission interface
Keywords and classification
Collaborative tools
Personalisation
Multimedia content

提纲

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终端界面：学术资源

https://inspirehep.net/

收录领域的专注度——130+万篇文献数量

inSPIRE HEP

Welcome to INSPIRE, the High Energy Physics information system. Please direct questions, comments or concerns to feedback@inspirehep.net.

HEP :: **HEPNAMES** :: **INSTITUTIONS** :: **CONFERENCES** :: **JOBS** :: **EXPERIMENTS** :: **JOURNALS** :: **HELP**

HEP Search

High-Energy Physics Literature Database

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

	Brief format ▾	Search	Easy Search
			Advanced Search

find j "Phys.Rev.Lett.,105*" :: more

HEP
Additions
Corrections
Search Tips
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Topcites: annual | recent
Reviews
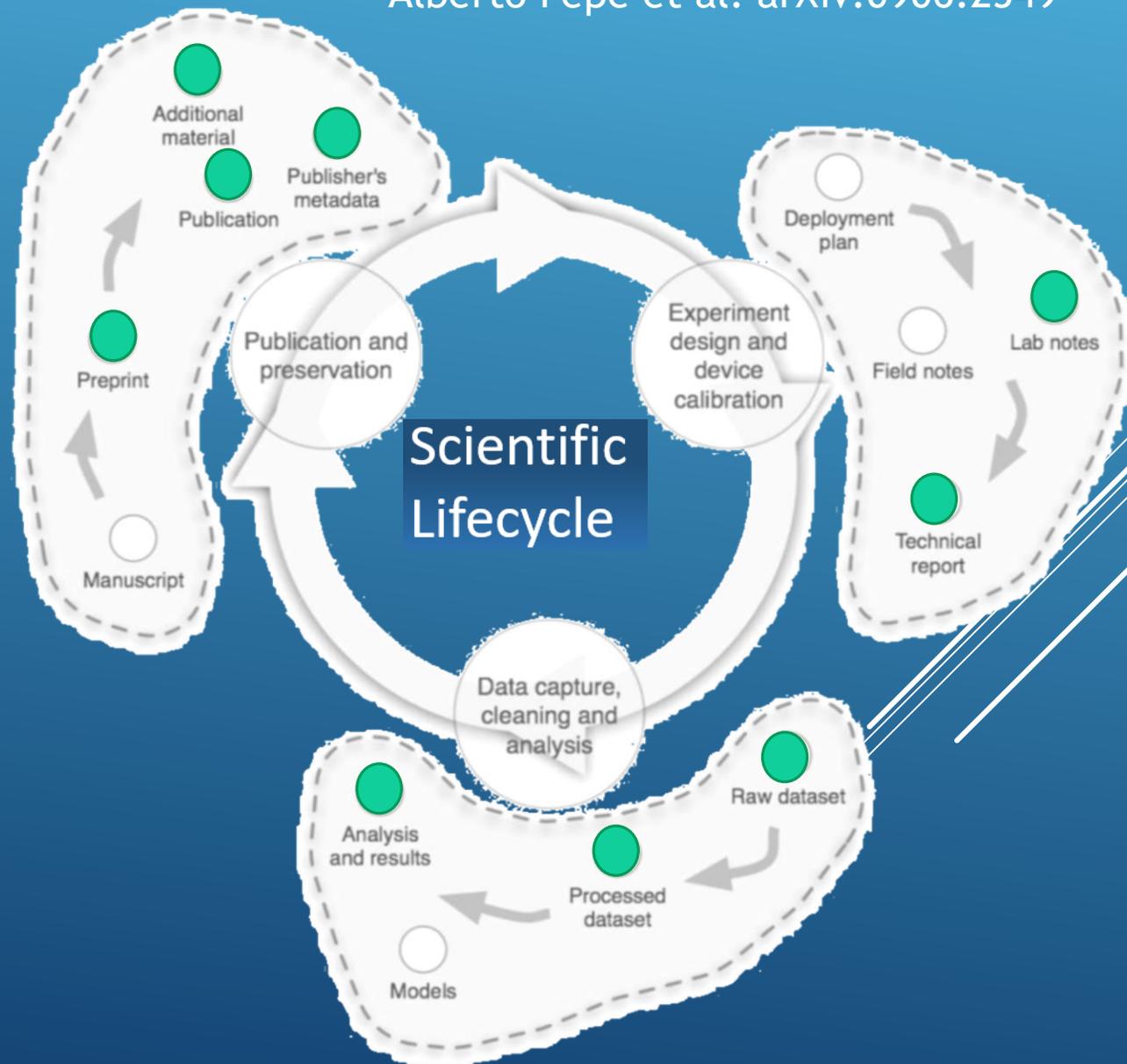HEP Citesummary

- hep-th   • hep-ex
- hep-ph • hep-lat

文献类型

Alberto Pepe et al. arXiv:0906.2549

- 涵盖了科研周期10/13近**80%的文献类型**
- 此外还有**学位论文会议文集**

全文阅读渠道+多种数据格式

- CERN Document Server
- ADS Abstract Service
- HAL Archives Ouvertes
- OSTI.gov Server
- Link to Fulltext
- Fermilab Library Server (fulltext available)
- SLAC Document Server

热点文献：DISCOV

HEP :: **HEPNAMES** :: **INSTITUTIONS** :: **CONFERENCES**

refersto:recid:1124337 | Citesummary ▾ | Search | Easy Search / Advanced Search

find j "Phys.Rev.Lett.,105*" :: more

Sort by: earliest date ▾ desc. ▾ times cited ▾   Display results: 25 results ▾ single list ▾

Citations summary

Generated on 2019-09-27

9814 papers found, 7316 of them citeable (published or arXiv)

Citation summary results	Citeable papers	Published only
Total number of papers analyzed:	7,316	4,877
Total number of citations:	198,055	175,118
Average citations per paper:	27.1	35.9
Breakdown of papers by citations:		
Renowned papers (500+)	21	18
Famous papers (250-499)	71	61
Very well-known papers (100-249)	304	273
Well-known papers (50-99)	638	590
Known papers (10-49)	2,467	2,219
Less known papers (1-9)	2,444	1,423
Unknown papers (0)	1,371	293
h_{HEP} index [?]	167	159

See additional metrics

Exclude self-citations or RPP

---

fin cn atlas and d 2012

find j "Phys.Rev.Lett.,105*" :: more

Sort by: earliest date ▾ desc. ▾ times cited ▾   Display re 25 results ▾

HEP   **785 records found 1 - 25**

1. **Observation of a new particle in the**
(9814) ATLAS Collaboration (Georges Aad (Freiburg
Published in **Phys.Lett. B716 (2012) 1-29**
CERN-PH-EP-2012-218
DOI: 10.1016/j.physletb.2012.08.020
e-Print: **arXiv:1207.7214** [hep-ex] | PDF
References | BibTeX | LaTeX(US) | LaT
CERN Document Server; ADS Abstrac
Detailed record – Cited by 9814 records 1000+

经典的历史文献——最早关于现代物理学的讨论

《自然哲学的数学原理》

Information | References (0) | Citations (6) | Files | Plots

Philosophiæ Naturalis Principia Mathematica

Mathematical Principles of Natural Philosophy

牛顿 ← Isaac Newton (Cambridge U.)

1687 → **1687**

England: (1687)

Record added 2018-04-11, last modified 2018-04-11

Link to Google Books

⇒ Export
BibTeX, EndNote, LaTeX(US), LaTeX(EU), Harvmac, MARC, MARCXML, NLM, DC

HEP :: HEPNAMES :: INSTITUTIONS :: CONFERENCES :: JOBS :: EXPERIMENTS :: JOURNALS :: HELP

《关于两门新科学的讨论》

Information | References (0) | Citations (0) | Files | Plots

Discorsi e dimostrazioni matematiche, intorno a Due Nuove Scienze

Discourses and Mathematical Demonstrations Concerning Two New Sciences

伽利略 ← Galileo Galilei

1638 → **1638年**

Italy: (1638)
ISBN: 9781483285276 (Print), 9781483283111 (Online)

Record added 2018-04-10, last modified 2018-04-10

Link to Elsevier
Link to ScienceDirect

⇒ Export
BibTeX, EndNote, LaTeX(US), LaTeX(EU), Harvmac, MARC, MARCXML, NLM, DC

最古老的文献——欧洲中世纪的大学教材

HEP :: HEPNAMES :: INSTITUTIONS :: CONFERENCES :: JOBS :: EXPERIMENTS :: JOURNALS :: HELP

Information | References (0) | Citations (0) | Files | Plots

《天球论》← **Tractatus de Sphæra** (In Latin)

Treatise on the sphere
Johannes de Sacrobosco (Paris U., IV) → 萨克罗博斯科

1230 - 117 pages

(1230)
1230

Abstract
The treatise on the sphere we divide into four chapters, telling, first, what a sphere is, what its center is, what the axis of a sphere is, what the pole of the world is, how many spheres there are, and what the shape of the world is. In the second we give information concerning the circles of which this material sphere is composed and that supercelestial one, of which this is the image, is understood to be composed. In the third we talk about the rising and setting of the signs, and the diversity of days and nights which happens to those inhabiting diverse localities, and the division into climes. In the fourth the matter concerns the circles and motions of the planets, and the causes of eclipses.

Record added 2006-11-15, last modified 2015-11-04

Link to English translation → 英文版本阅读渠道

⇒ Export
BibTeX, EndNote, LaTeX(US), LaTeX(EU), Harvmac, MARC, MARCXML, NLM, DC
⇒ Edit This Record
⇒ Manage Files of This Record

INTERACTIONS AND MAINTENANCE ——TICKETS
feedback@inspirehep.net

Interactions & Feedbacks

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INSPIRE working groups

AB

INSPIRE database

Services

Maintenance

2019年安徽合肥中国科学技术大学

提纲
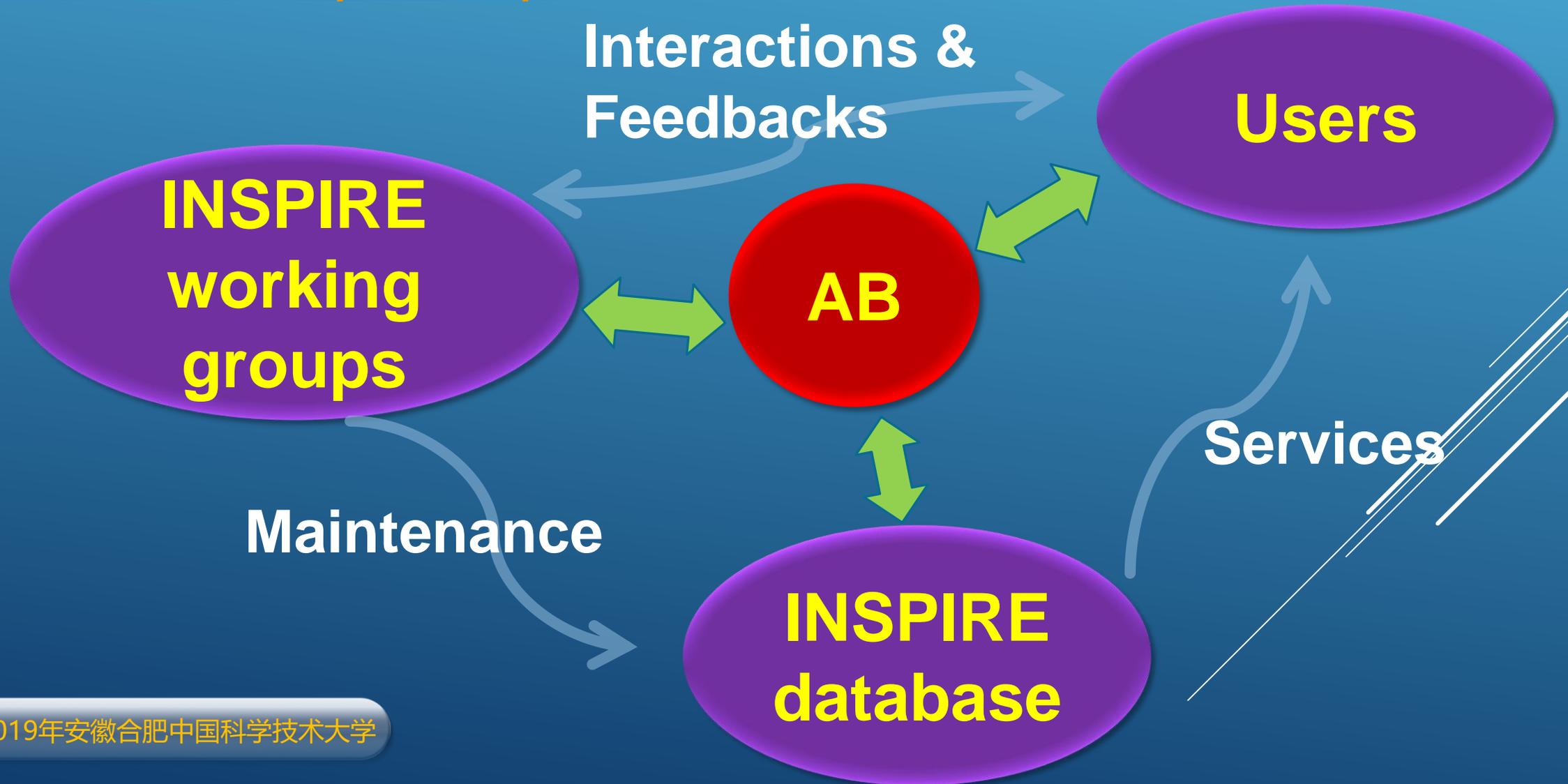
语法规则

一. SPIRES-style
- ● Searching is activated simply "f " → **f cn be**
- ● Searches indexes
- ● Example = **f ea xing, zh**

二. Invenio keyword style
- ● Can combine index search
- ● Index searching uses ':'

f cn besiii and date > 2010

find j "Phys.Rev.Lett.,105*" :: 更多

find ea xing, zhi zhong and aff Beijing, Inst. High Energy Phys.

find j "Phys.Rev.Lett.,105*" :: 更多

HEP   找到 **200** 笔记录 1 - 25 ▶ ▶▶ 跳到记录: 1

1. **Towards the meV limit of the effective neutrino mass in neutrinoless double-beta**
Jun Cao, Guo-Yuan Huang, Yu-Feng Li, Yifang Wang, Liang-Jian Wen, Zhi-Zhong Xing (Beijing, Inst. High
2019. 16 pp.
e-Print: arXiv:1908.08355 [hep-ph] | PDF
References | BibTeX | LaTeX(US) | LaTeX(EU) | Harvmac | EndNote
ADS Abstract Service
详细记录 - Cited by 1 record

单词与短语、通配符

单词与短语
muon decay searches for the words muon and decay

'muon decay' searches for the phrase muon decay

通配符*
*CERN-TH*31* searches for report numbers CERN-TH-2017-031, CERN-TH-2016-231, CERN-THESIS-2015-331, etc.

布尔逻辑检索

一. Combine search terms and phrases with 'and', 'or', and 'not', or '+', '|', and '-'

二. Operations are automatically chained left to right

三. Parentheses can be used to group Boolean expressions together

四. Examples:

- **Muon or kaon and ellis**
  - Records written by Ellis on muons or kaons
- **Ellis and muon or kaon**
  - Records on muons written by Ellis or documents about kaons
- **Muon or kaon and ellis -decay**
  - Records written by Ellis on muons or kaons, but exclude documents on decay
- **(gravity OR supergravity) AND (ellis OR perelstein)**
  - Records containing either gravity or supergravity, and either ellis or perelstein anywhere in the record.

范围符号的使用

一. Use -> searches for an inclusive range
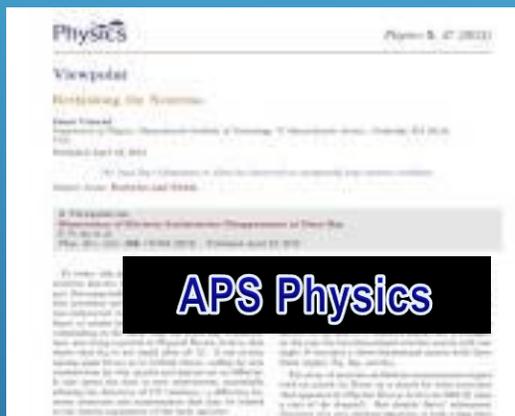- date:2003->2005 returns records with a date from 2003, 2004, and 2005

二. Searches using > or < are exclusive of the date specified
- Find d > 2016-07 returns records with a date from August 2016 to present
- Find d < 1960 returns records with a date from 1959 and earlier
- > and < can only be used in SPIRES-style searches

大亚湾中微子实验新发现的中微子振荡

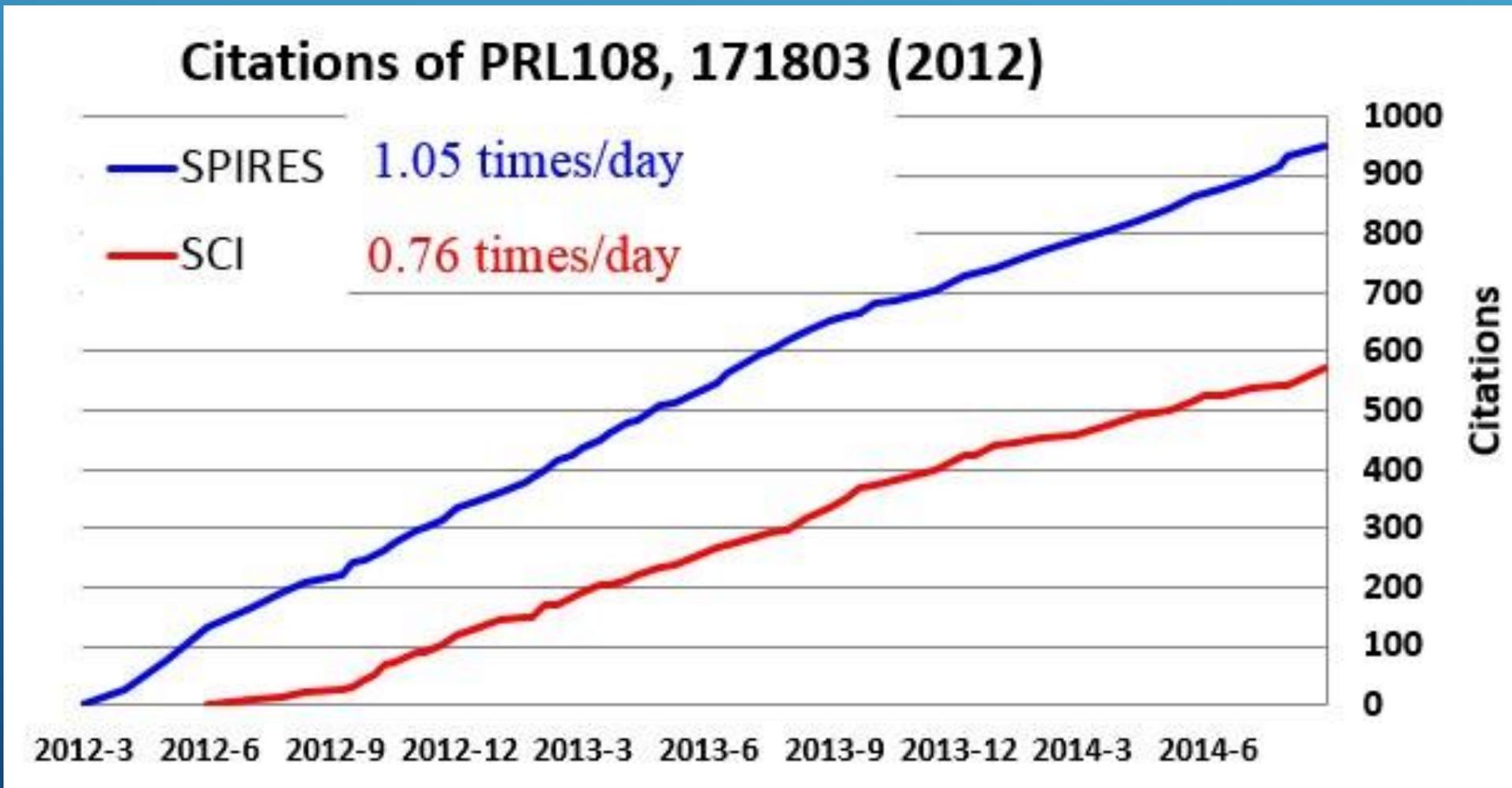大亚湾合作组发现大的1-3代中微子混合，并精确测量中微子混合角θ_{13}；被《Science》评为2012年10大突破性进展之一

大亚湾中微子实验新发现的中微子振荡论文引用数量对比图

Citations of PRL108, 171803 (2012)

- SPIRES   1.05 times/day
- SCI   0.76 times/day

2012-3 2012-6 2012-9 2012-12 2013-3 2013-6 2013-9 2013-12 2014-3 2014-6

目前被引2179

查询检索与统计分析

This list was originally compiled and classified by Michael Peskin, SLAC.

Michael Peskin

The general headings are as follows:

I. Theoretical and Mathematical Physics
 Mathematics for Physics Applications, Quantum Mechanics, Quantum Field Theory, Gravity, S

II. Elementary Particle Physics - Standard Model
 General Aspects of Elementary Particles, Quantum Electrodynamics, Strong Interactions, We

III. Elementary Particle Physics - Beyond the Standard Model
 Higgs Boson Physics, Technicolor and Composite Higgs, Sup

IV. Astro-Particle Physics
 General Relativity and Gravity, Normal and Exotic Stars, Energ

V. Nuclear and High-Density Strong Interactions
 Nuclear Structure and Reactions, QCD in Nuclear Physics, QC

VI. Accelerator Physics
 General Aspects of Accelerator Physics, Linear Accelerators, Synchrotrons, Linear e+e- Colli

- **I. Theoretical and Mathematical Physics** [Top of page]
  - I-a. Mathematics for Physics Applications
    - I-a-1. Functional Analysis
    - I-a-2. Group Theory
    - I-a-3. Differential Geometry and Tensors
    - I-a-4. Algebraic Geometry and Topology
    - I-a-4. Statistical and Random Dynamics
  - I-b. Quantum Mechanics
    - I-b-1. General Quantum Theory
    - I-b-2. Interpretation of Quantum Mechanics
    - I-b-3. Scattering Theory
    - I-b-4. Group Theory in Quantum Mechanics
  - I-c. Quantum Field Theory
    - I-c-1. Foundations of Quantum Field Theory
    - I-c-2. Gauge Invariance
    - I-c-3. Feynman Diagram Calculation
    - I-c-4. Spontaneously Broken Symmetry
    - I-c-5. Solitons and Instantons
    - I-c-6. Lattice Quantum Field Theory
    - I-c-7. Renormalization and Renormalization Group
    - I-c-8. Scale-Invariant Field Theories
    - I-c-9. Integrable and Exactly Solvable Field Theories

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Reviews
HEP Citesummary
Tools

HEP :: HepNames :: ... :: FERENCES

HEP Reviews

INSPIRE Guide to the Review Literature in HEP

(See also highly cited reviews in: astro-ph | gr-qc | hep-ex | hep-lat | hep-ph | hep-th | nucl-ex | nucl-th)

tc = type code

HEP :: HepNames :: INSTITUTIONS :: CONFERENCES

find topcite 100+ and tc r and primarch hep-th | Brief format | 搜寻 Easy Search 高级检索

find j "Phys.Rev.Lett.,105*" :: 更多

find topcite 100+ and tc r and primarch hep-th

排序 结果显示

时间 | 降序排列 | -取排列- | 15 结果 | 单一列表

HEP   找到 **238** 笔记录 1 - 25 ▶ ▶▶ 跳到记录: 1

1. **The Conformal Bootstrap: Theory, Numerical Techniques, and Applications**
   David Poland (Yale U.), Slava Rychkov (IHES, Bures-sur-Yvette & Ecole Normale Superieure), Alessandro Vichi (Ecole Polytechni
   Published in Rev.Mod.Phys. 91 (2019) 015002
   DOI: 10.1103/RevModPhys.91.015002
   e-Print: arXiv:1805.04405 [hep-th] | PDF
   References | BibTeX | LaTeX(US) | LaTeX(EU) | Harvmac | EndNote
   CERN Document Server; ADS Abstract Service
   详细记录 - Cited by 109 records [100+]

2. **Holographic Entanglement Entropy**
   Mukund Rangamani (UC, Davis (main) & UC, Davis, QMAP), Tadashi Takayanagi (Kyoto U., Yukawa Inst., Kyoto). Sep 5, 2016. 24
   Published in Lect.Notes Phys. 931 (2017) pp.1-246

Search Terms - INSPIRE-HEP
https://inspirehep.net/info/hep/search-tips-index-list

高被引论文榜单

Micheal Peskin

2017 annual	2017 alltime	2017 eprints		2017 review
2016 annual	2016 alltime	2016 eprints		2016 INSPIRE blog
2015 annual	2015 alltime	2015 eprints		2015 INSPIRE blog
2014 annual	2014 alltime	2014 eprints		2014 INSPIRE blog
2013 annual	2013 alltime	2013 eprints		2013 INSPIRE blog
2012 annual	2012 alltime	2012 eprints		2012 Symmetry Breaking blog
2011 annual	2011 alltime	2011 eprints		2011 INSPIRE blog
2010 annual	2010 alltime	2010 eprints		
2009 annual	2009 alltime	2009 eprints		2009 Symmetry Breaking blog
2008 annual	2008 alltime	2008 eprints		2008 Symmetry Breaking blog
2007 annual	2007 alltime	2007 eprints		2007 Symmetry Breaking blog
2006 annual	2006 alltime	2006 eprints		
2005 annual	2005 alltime	2005 eprints		
2004 annual	2004 alltime	2004 eprints		
2003 annual	2003 alltime	2003 eprints		2003 HEP review 2003 astro-ph review

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INSPIRE

https://inspirehep.net/info/hep/stats/topcites/index

全球高能物理学者活跃比例

ORCID

~70%

活跃

转行

退休

去世

诺奖获得者的履历和学术成果

678__a:/nobel prize/ and **field:hep-ex**

有博客的高能物理学者

8564_y:blog affiliation:Beijing, Inst. High Energy Phys.

查询理论作者发文

ac = author count

学术交流——会议

HEP :: HEPNAMES :: INSTITUTIONS :: **CONFERENCES** :: JOBS :: EXPERIMENTS :: JOURNALS :: HELP

Conferences Search
High-Energy Physics Conferences Database
Use "find " for SPIRES-style search (other tips)

Search   Advanced Search

Las Vegas :: more

- **Upcoming conferences**
- **Conference series**

CONFERENCES
Additions
Corrections
Email Us
Upcoming conferences
Conference series

INSPIRE

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fin date > today and t particle

Search   Advanced Search

Las Vegas :: more

fin date > today and t particle

Sort by: Display results: Output format:
latest first | asc. | - or rank by - | 25 results | single list | Brief format |

Conferences   **10** records found

1. **9th International Workshop on Semiconductor Pixel Detectors for Particles and Imaging (PIXEL 2018)**
   10-14 Dec 2018. Taipei, Taiwan
   C18-12-10, Contributions
   https://indico.cern.ch/event/669866/
   Detailed record - Edit record - Manage files

2. **14th Conference on the Intersections of Particle and Nuclear Physics (CIPANP 2021)**
   01-06 Jun 2021. To be decided, USA
   C21-06-01, Contributions
   Detailed record - Edit record - Manage files

Conference Series
Major Conference Series

1. Accelerators
2. Computing, Instruments and Detectors
3. Hadrons and Nuclei
4. HEP (general)
5. Neutrinos
6. Relativity, Cosmology and Astrophysics

- Accelerators
   ○ AAC
   ○ ABDW

学术交流——招聘 ~1500条/年

HEP :: HEPNAMES :: INSTITUTIONS :: CONFERENCES :: JOBS

Jobs Search
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.

SELECT SEARCH FILTERS (MULTIPLES ALLOWED):

Rank:
Senior
Junior
Postdoc
Student
Visiting Scientist

Region:
Africa
Asia
Australasia
Europe
Middle East

Field:
astro-ph
cond-mat
cs
gr-qc
hep-ex

Crtl + click to select multiple
Crtl + click existing to remove
Reset search

Optionally add some keywords to the search:

[   ] [Search]

particle physics :: more

LIST ALL JOBS :: JOBS MATRIX :: ADD A POSTING

POSTDOC DEADLINES

As occurred the last few years, many institutions have agreed to set January 7 as the earliest deadline which can be imposed for accepting offers of postdoctoral positions. Details and instructions for how to sign can be found here

JOBS
Add a posting
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Jobs Matrix
RSS feed
Search Tips
INSPIRE Help
Email Us

2019年安徽合肥中国科学技术大学

学术交流——招聘

总结

一．愿景使命：以一线科学家最迫切最核心的需求为己任；

二．国际合作：开放共享的合作模式，集结了领域内资源瞄准共同目标

致 谢

2019年安徽合肥中国科学技术大学