# 高能物理学术信息平台 INSPIRE介绍

INSPIRE国际合作组高能所团队:<u>江亚欧</u>、刘瑞荣、刘淑梅、马可青、翁硕、于健(副主任)

致谢文献信息部: 刘世宏、吴霞、赵春梅、郑文莉 (主任)

2021年3月5日

### 提纲

—. INSPIRE的发展历程

二. INSPIRE的核心功能

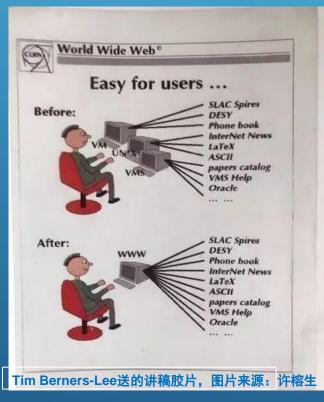
三. INSPIRE的用户反馈

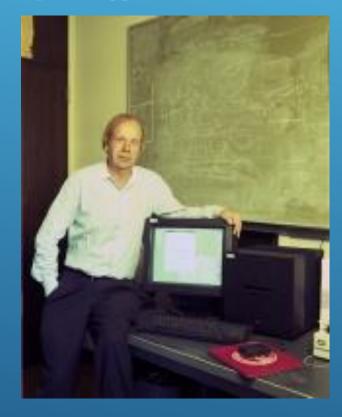
# 一. INSPIRE的发展历程

#### 1991年,第一个数据库



图片来源: Fermilab News June 1980





图片来源: SLAC

一直优化不断地方便高能物理用户获取资源

# 一. INSPIRE的发展历程



- 时效性
- 收录范围
- 数据标准



### 大亚湾中微子实验新发现的中微子振荡

#### **NEWS & ANALYSIS** Science



#### **Key Neutrino Measurement** Signals China's Rise

Reactor experiment reveals neutring oscillation's

Physics Today









#### The Economist

#### Flavoursome research

HOT on the heels of results from Fermilab, America, which reported last week on an esoteric phenomenon called charge equally esoteric subatomic particles known Dava Bay Collaboration of more than 40 institutions, mainly from China and America



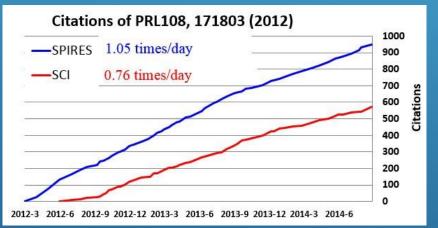
has found a related result involving neutrinos. CP violation is an asymmetry between matt and antimatter and the experiment, based at a complex of nuclear reactors 50km (30 miles) north of Hong Kong, has settled a longstanding puzzle that bears on the question of whether neutrinos, too, experience it. That, in turn, is related to the deeper question of why the universe is made of matter rather than having originally had equal amounts of matter and antimatter. If such a primordial equity had prevailed, the two would have annihilated each other, leaving a universe filled only with energy

Strictly speaking the Dava Ray agreement looked at antineutrinos rather than neutrino These particles are a by-product of nuclear fission, and the six reactors at Daya Bay and nearby Ling Ao turn them out in prodigious quantities. The idea was to see how many of these antineutrinos disappear before reaching the experiment's main detector (pictured

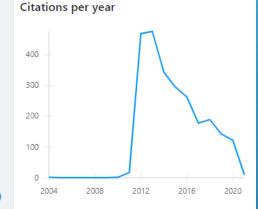
### 大亚湾合作组发现大的1-3代中微子混合,并 精确测量中微子混合角θ<sub>13</sub>;被Science评为 2012年10大突破性进展之一

### 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

#### 引用率趋势对比图片来源:曹俊科学网博客









INSPIRE 被引频次2506

被引频次1546

第十九届强子物理在线论坛

检索日期: 2021-3-5

# 用户: 5W+活跃的 实验物理学家、理论物理学家、天体物理学家



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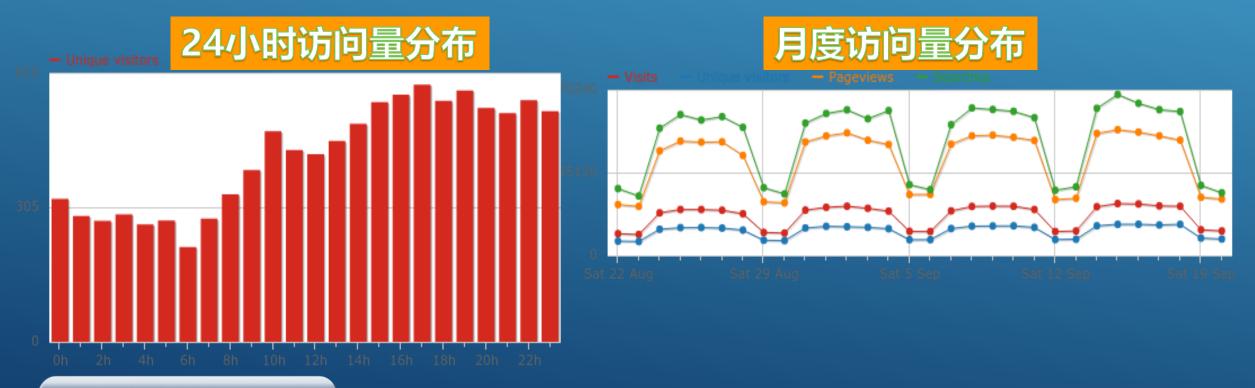
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活跃频度:

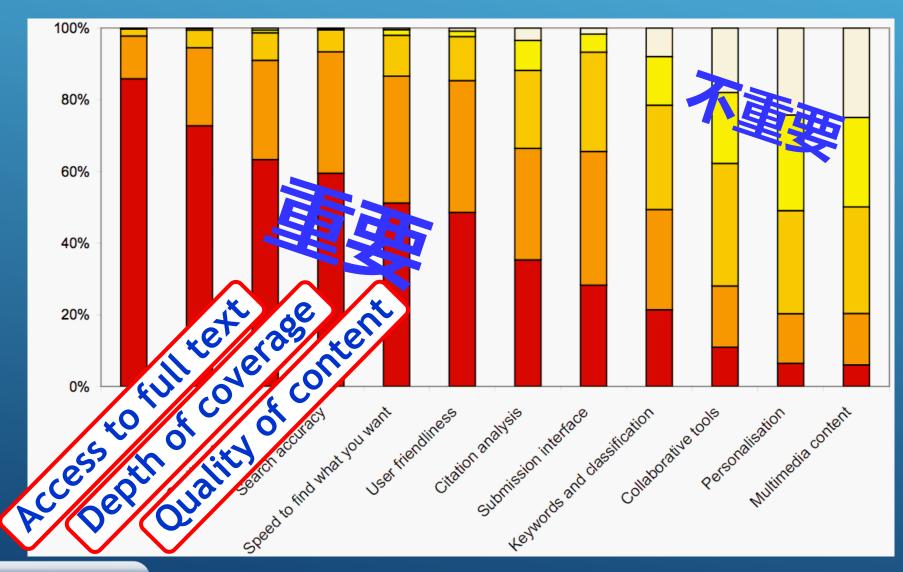
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②、反馈:一年近10万条用户反馈。



第十九届强子物理在线论坛

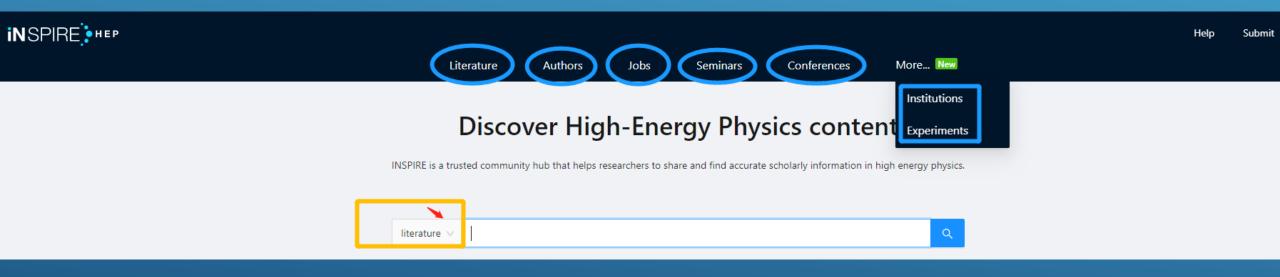
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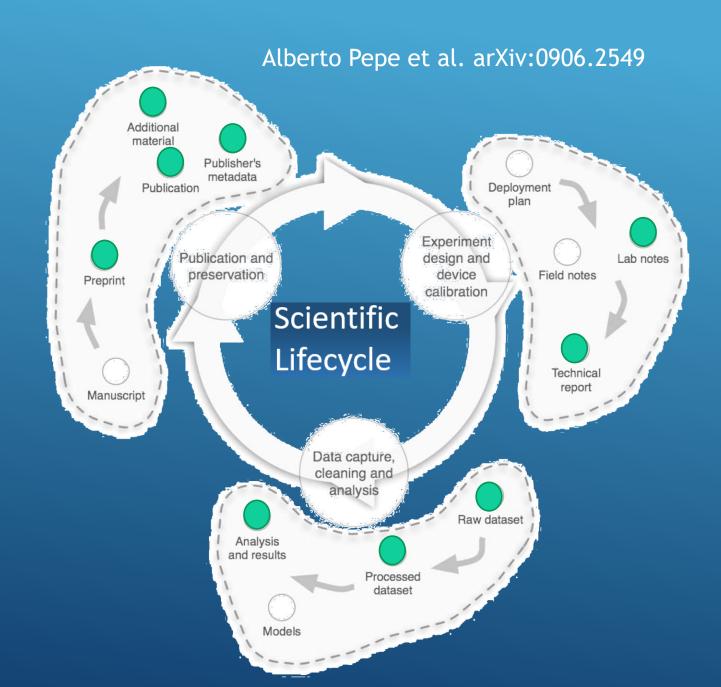


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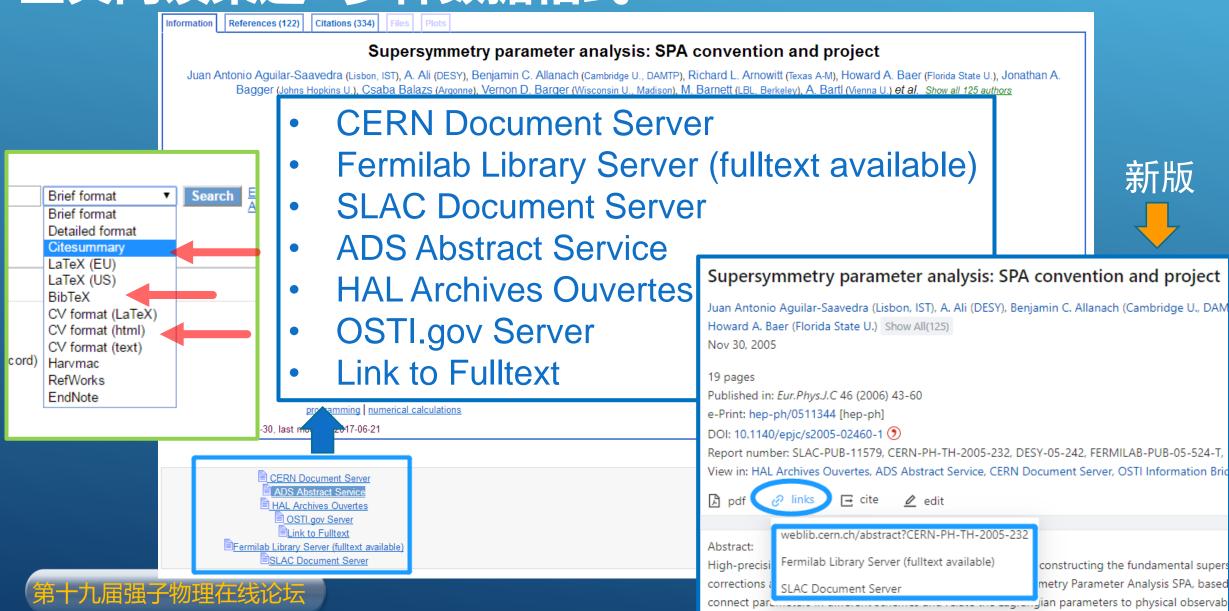
旧版: https://old.inspirehep.net/

### 文献类型

- · 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



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# 文献回溯功能: 最早关于现代物理学的讨论



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Information References (0)

Citations (0)

Files

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《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



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- Michael Peskin (Former Chair), Professor, Theoretical Physics Group (SLAC)
- Jürgen Reuter, Theoretical Particle Physics (DESY)
- Qiang Zhao, Professor, Deputy Director of Theory Division (IHEP)



### 一. 关于INSPIRE数据库——收录、评价

一. 学者科研活跃度的展示: 基金申请、职位申请

二. 重要科研成果的客观评价依据

#### Observation of electron-antineutrino disappearance at Daya Bay

Daya Bay Collaboration • F.P. An (Beijing, Inst. High Energy Phys.) et al. (Mar 8, 2012)
Published in: *Phys.Rev.Lett.* 108 (2012) 171803 • e-Print: 1203.1669 [hep-ex]

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目前被引2506

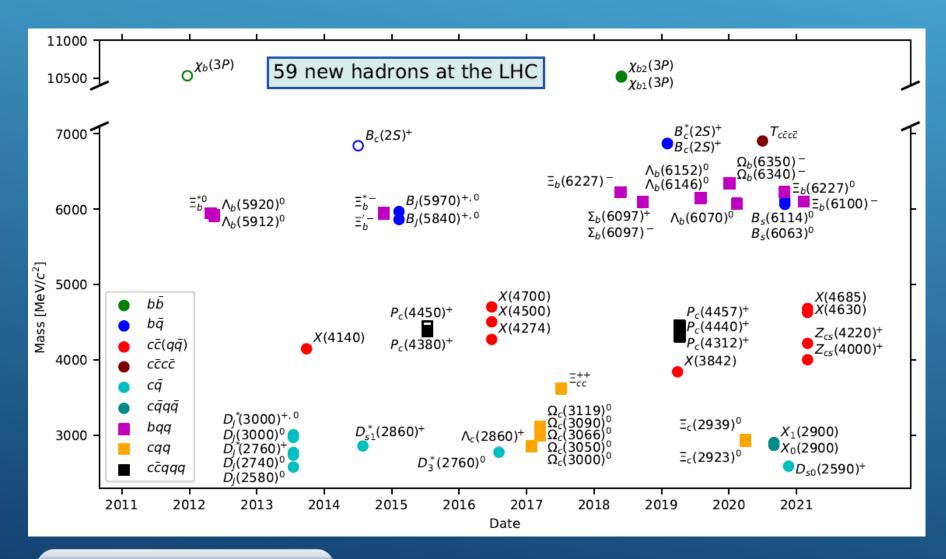
### 提纲

一. INSPIRE的发展历程

二. INSPIRE的核心功能

三. INSPIRE的用户反馈

#### 59 NEW HADRONS AND COUNTING

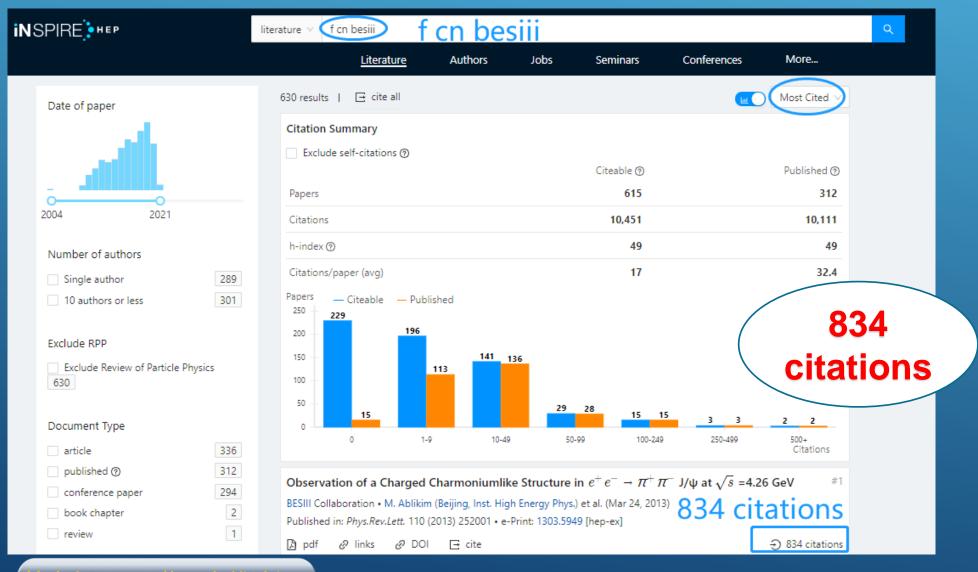


# BESIII合作组发现Zc(3900)

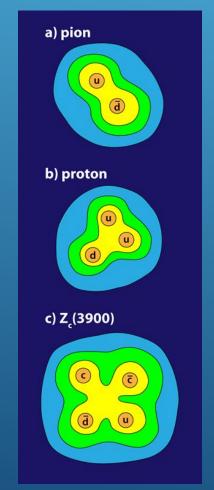


The Beijing Spectrometer Experiment (BESIII) found evidence of a new particle that may contain four quarks. The same particle was independently found at the Belle experiment in Japan, with both projects publishing their results June 17, 2013. Credit: Institute of High Energy Physics (IHEP), Beijing View full size image

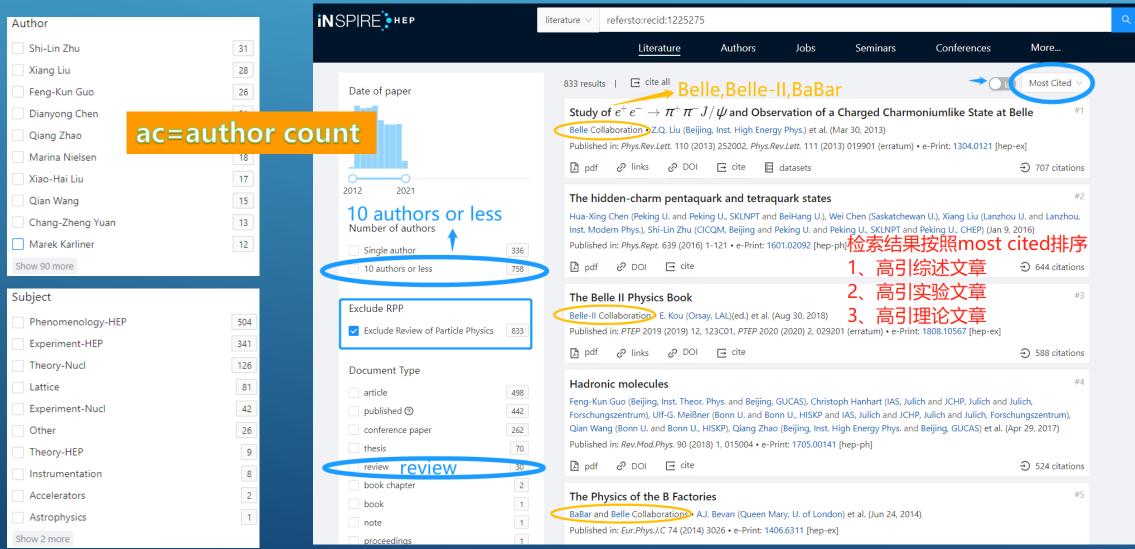
# INSPIRE CAN HELP— BESIII合作组发现Zc(3900)



\$Z\_c\$(3900)



# 对Zc(3900)文章的引文进行分类扩展



第十九届强子物理在线论坛

更多:https://inspirehep.net/help/knowledge-base/inspire-paper-search/

### 引文关系网络图

References (33)

Citations (833)

Files Plots

#### Observation of a Charged Charmoniumlike Structure in $e^+e^- o\pi^+\pi^-$ J/ $\psi$ at $\sqrt{s}$ =4.26 GeV

BESIII Collaboration (M. Ablikim (Beijing, Inst. High Energy Phys.) et al.) Show all 369 authors

Mar 24, 2013 - 7 pages

#### Phys.Rev.Lett. 110 (2013) 252001

(2013-06-17)

DOI: 10.1103/PhysRevLett.110.252001 (2), 10.1142/9789811217739 0033 (3)

e-Print: arXiv:1303.5949 (9) [hep-ex] | PDF Experiment: BEPC-BES, BEPC-BES-III

#### Abstract (APS)

We study the process  $e+e \rightarrow \pi+\pi-J/\psi$  at a center-of-mass energy of 4.260 GeV using a 525 pb-1 data sample collected with the BESIII detector operating at the Beijing Electron Positron Collider. The Born cross section is measured to be (62.9±1.9±3.7) pb, consistent with the production of the Y(4260). We observe a structure at around 3.9 GeV/c2 in the  $\pi\pm J/\psi$  mass spectrum, which we refer to as the Zc(3900). If interpreted as a new particle, it is unusual in that it carries an electric charge and couples to charmonium. A fit to the π±J/ψ invariant mass spectrum, neglecting interference, results in a mass of (3899.0±3.6±4.9) MeV/c2 and a width of (46±10±20) MeV. Its production ratio is measured to be R=(\sigma(\sigma(e+e- $\rightarrow \pi \pm Zc(3900) \mp \rightarrow \pi + \pi - J/\psi)/\sigma(e+e \rightarrow \pi + \pi - J/\psi)) = (21.5 \pm 3.3 \pm 7.5)\%$ . In all measurements the first errors are statistical and the second are systematic.

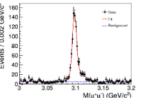
Abstract (arXiv)

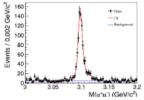
PDG: psi(4260) --> J/psi pi+ pi- | psi(4260) --> Z\_c(3900)+- pi-+ , Z\_c()+- --> J/psi pi+- | More

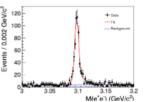
PACS: 14.40.Pg | 13.66.Bc | 14.40.Rt

Note: 7 pages, 4 figures. Version appears in PRL

Keyword(s): INSPIRE: mass spectrum: (J/psi(3100) pi) | channel cross section: ratio: measured | channel cross section: measured | Y(4260); electroproduction | electron positron; annihilation | mass; width | charmonium; coupling | BES | pi; pair production | J/psi(3100); associated production | experimental results | Beijing Stor | electron positron --> J/psi(3100) pi+ pi- | 4.26 GeV-cms







Show more plots

检索日期: 2021-3-5

### 引文关系网络图

#### 参考文献: 越查越深, 追根溯源



Citations (833) | Files | Plots

Observation of a Charged Charmoniumlike Structure in e (2013) 252001 arXiv:1303.5949 ()[hep-ex]

#### Update these references

- [1] Observation of a broad structure in the  $\pi^+\pi^-J/\psi$  mass spectrum 05-29. SLAC-PUB-11320
- [2] Confirmation of the Y(4260) resonance production in ISR CLEO C
- Measurement of e+ e- ---> pi+ pi- J/psi cross-section via initial state PREPRINT-2007-31, KEK-PREPRINT-2007-23
- [4] Charmonium decays of Y(4260), psi(4160) and psi(4040) CLEO Co
- Study of the reaction  $e^+e^- \rightarrow J/\psi \pi^+\pi^-$  via initial-state radiation SLAC-PUB-14947
- [6] Higher charmonia Barnes, T. et al. Phys.Rev. D72 (2005) 054026 he
- [7] Determining the upper limit of Gamma(ee) for the Y(4260) Mo, X.H.
- [8] Measurement of Charm Production Cross Sections in e+e- Annihil arXiv:0801.3418 (2) [hep-ex] CLNS07-2015, CLEO-07-19
- [9] Measurement of the near-threshold e+ e- ---> D(\*)+- D(\*)-+ cross se
- [10] Study of the Exclusive Initial-State Radiation Production of the D a BABAR-CONF-06-33
- [11] Exclusive Initial-State-Radiation Production of the D anti-D, D\* anti ex] SLAC-PUB-13560, BABAR-PUB-08-057
- [12] Exclusive Production of  $D_s^+D_s^-$ ,  $D_s^{*+}D_s^-$ , and  $D_s^{*+}D_s^{*-}$  via  $e^+e^$ arXiv:1008.0338 ()[hep-ex] SLAC-PUB-14209. BABAR-PUB-10-015]
- [13] Heavy Quarkonium: Progress, Puzzles, and Opportunities Brambi 10-44, ALBERTA-THY-11-10, CP3-10-37, FZJ-IKP-TH-2010-24, INT-PU
- [14] Observation of anomalous Upsilon(1S) pi+ pi- and Upsilon(2S) pi+ arXiv:0710.2577 [hep-ex] BELLE-CONF-0774
- [15] First observation of the P-wave spin-singlet hottomonium states

#### 核心文章。高质量

#### Observation of a Charged Charmoniumlike Structure in $e^+e^ \rightarrow \pi^+\pi^-$ J/ $\psi$ at $\sqrt{s}$ =4.26 GeV

BESIII Collaboration (M. Ablikim (Beijing, Inst. High Energy Phys.) et al.). Mar 24, 2013, 7 pp.

Published in Phys.Rev.Lett. 110 (2013) 252001

DOI: 10.1103/PhysRevLett.110.252001 (2), 10.1142/9789811217739 0033 (2)

e-Print: arXiv:1303.5949 (hep-ex] | PDF

References | BibTeX | LaTeX(US) | LaTeX(EU) | Harvmac | EndNote ADS Abstract Service; OSTI.gov Server; Interactions.org article; Link to WIRED.com article; Link to Physics World article

Detailed record - Cited by 833 records 500 - Attribute this paper - Edit record -Manage files

#### 相关文献: 越查越广

#### Co-cited with: 22859 records

(635) Study of  $e^+e^- o\pi^+\pi^-J/\psi$  and Observation of a Charged Charmoniumlike State at Belle - Belle Collaboration (Liu, Z.Q. et al.) Phys.Rev.Lett. 110 (2013) 252002. Erratum: Phys.Rev.Lett. 111 (2013) 019901 arXiv:1304.0121 [hep-ex] BELLE-PREPRINT-2013-6, KEK-PREPRINT-2013-2

(371) Observation of a narrow charmonium - like state in exclusive B+- ---> K+- pi+ pi- J / psi decays - Belle Collaboration (Choi, S.K. et al.) Phys.Rev.Lett. 91 (2003) 262001 hep-ex/0309032

(360) Observation of a Charged Charmoniumlike Structure  $Z_c$  (4020) and Search for the  $Z_c$ (3900) in  $e^+e^- \to \pi^+\pi^-h_c$  - BESIII Collaboration (Ablikim, M. et al.)

Phys.Rev.Lett. 111 (2013) no.24, 242001 arXiv:1309.1896 [hep-ex]

(352) Observation of the Charged Hadron  $Z_c^\pm(3900)$  and Evidence for the Neutral  $Z_c^0(3900)$  in  $e^+e^- o\pi\pi J/\psi$  at  $\sqrt{s}=4170$  MeV - Xiao, T. et al. Phys.Lett. B727 (2013) 366-370 arXiv:1304.3036 (hep-ex)

(312) Observation of a charged charmoniumlike structure in  $e^+e^- \to (D^*\bar{D}^*)^\pm\pi^\mp$ 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] more

#### 施引文献: 越查越新

References (33) Citations (833)

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: 833 records

(6545) Review of Particle Physics - Particle Data Group (Tanabashi, M. et al.) Phys.Rev. D98 (2018) no.3, 030001

(707) 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, Erratum: Phys.Rev.Lett. 111 (2013) 019901 arXiv:1304.0121 [hep-ex] BELLE-PREPRINT-2013-6, KEK-PREPRINT-2013-2

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

(589) The Belle II Physics Book - Belle-II Collaboration (Kou, E. et al.) PTEP 2019 (2019) no.12, 123C01, Erratum: PTEP 2020 (2020) no.2, 029201 arXiv:1808.10567 🤈 [hep-ex] KEK Preprint 2018-27, BELLE2-PUB-PH-2018-001, FERMILAB-PUB-18-398-T. JLAB-THY-18-2780, INT-PUB-18-047, UWThPh 2018-26

(525) Hadronic molecules - Guo, Feng-Kun et al. Rev.Mod.Phys. 90 (2018) no.1, 015004 arXiv:1705.00141 (2)[hep-ph]

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

(525) Hadronic molecules - Guo, Feng-Kun et al. Rev. Mod. Phys. 90 (2018) no.1, 015004 arXiv:1705.00141 (2)[hep-ph]

> ed Charmoniumlike Structure  $Z_c$  (4020) and Search for h<sub>c</sub> - BESIII Collaboration (Ablikim, M. et al.)

. 242001 arXiv:1309.1896 [7] [hep-ex]

sons and baryons: Experimental evidence - Olsen. ys. 90 (2018) no.1, 015003 arXiv:1708.04012 [hep-ph]

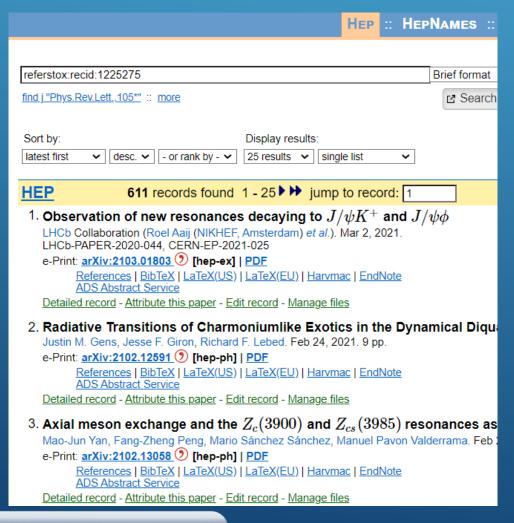
ed charmoniumlike structure in  $e^+e^- o (D^*\bar{D}^*)^\pm\pi^\mp$ laboration (Ablikim, M. et al.) Phys.Rev.Lett. 112 (2014)

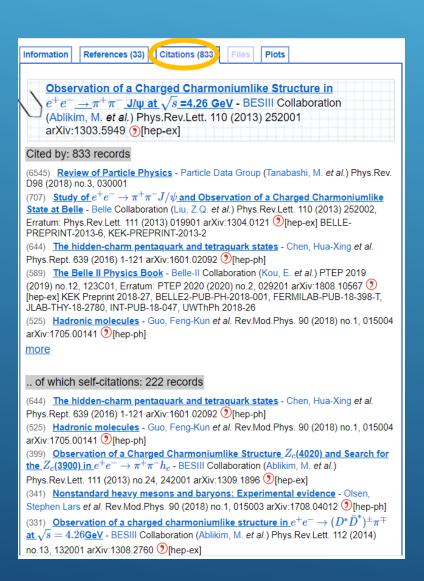
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检索日期: 2021-3-5

# Zc(3900)核心文献的他引文章列表

#### referstox:recid:1225275





# 形成完整Zc(3900)专题文献信息

- · 高引综述文章
- 1. 实验综述
- 2. 理论综述
- · 高引实验文章
- 1. 直接相关实验研究进展
- 2. 间接相关实验研究进展
- · 高引理论文章
- 1. 理论模型-I
- 2. 理论模型-**II**
- 3. ...

- 1) Zc(3900)研究现状
- 2) Zc(3900)本质的可能解释
- 3)研究团体(谁对Zc(3900)感兴趣?)
- 4) 还需要解决什么关键问题
- 5) ... ...

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任务规划、行程安排	✓	×	×	×	×	×
跨平台同步跨桌面、Web和移动设备	×	✓	×	×	✓	×
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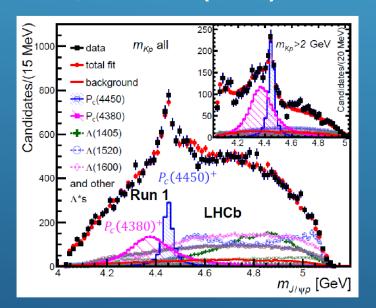
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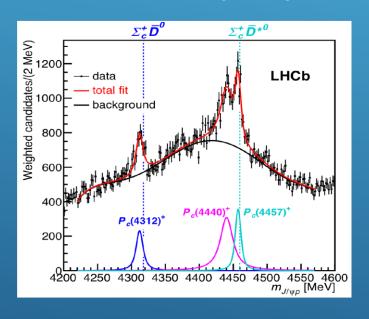
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INSPIRE CAN HELP— LHCb中国组发现重味五夸克态

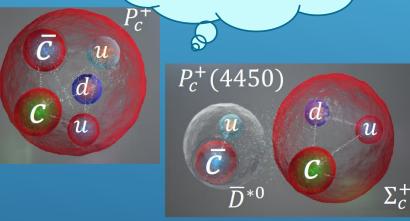
LHCb, PRL 115 (2015) 072001



LHCb, PRL 122 (2019) 222001



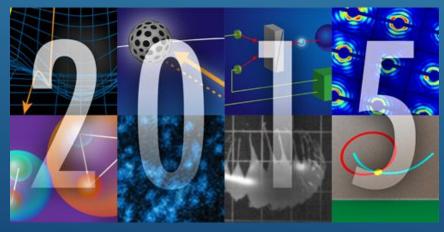
What is pentaquark?



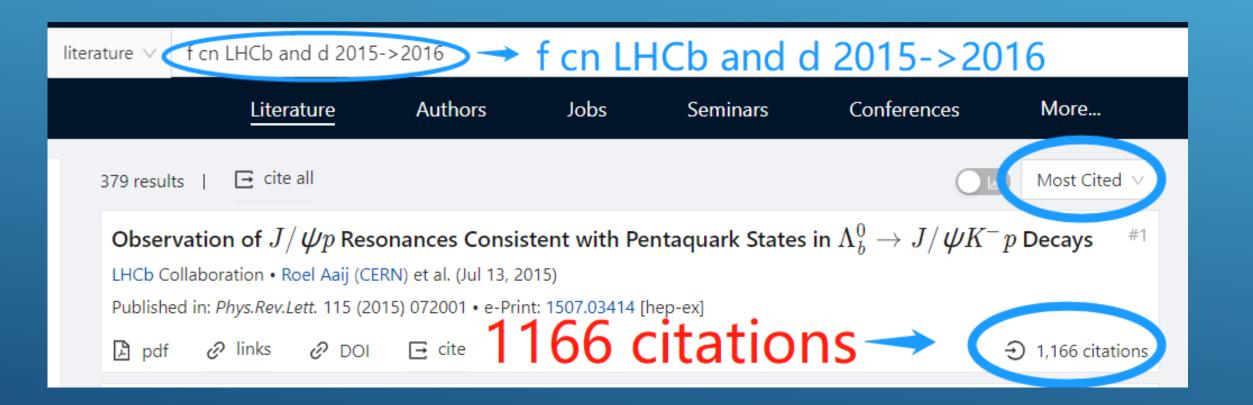
#### **APS Physics 2015 Highlights**

#### **INSPIRE** can help:

- 1) What is the status of the pentaquark studies?
- 2) Who are working in this field?
- 3) What have been done to interpret the experimental data?
- 4) What could be further developed in the future?
- **5)** ...



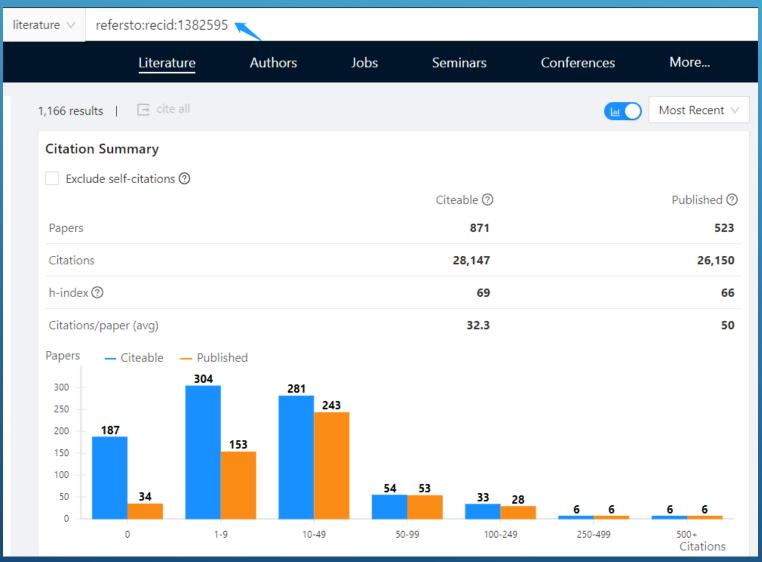
### 热点文献: LHCB



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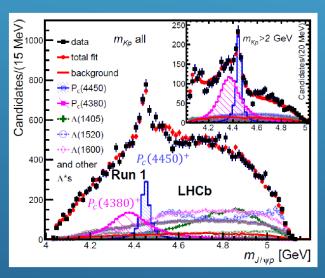
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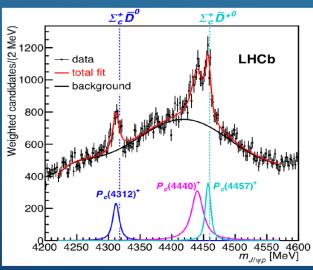


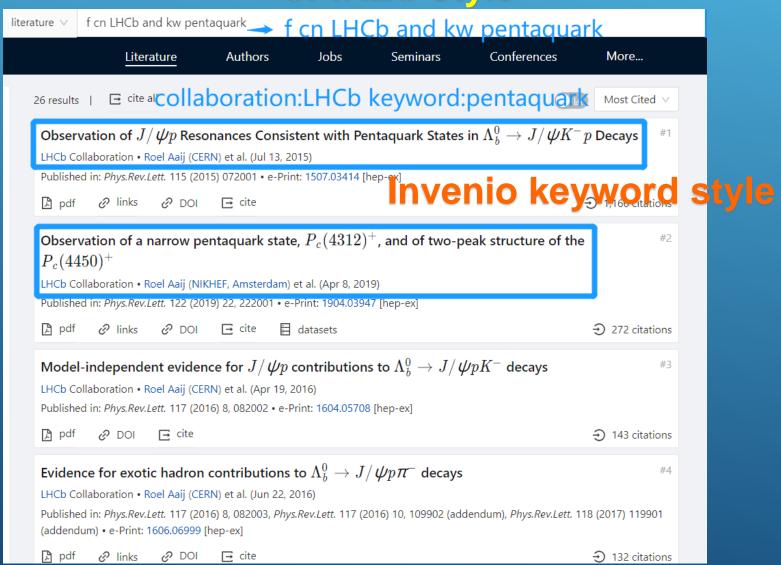
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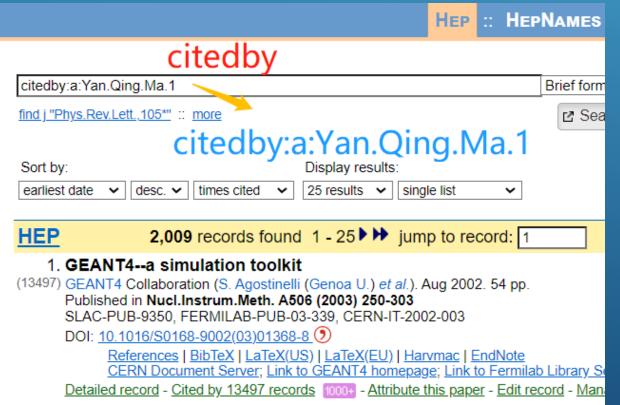




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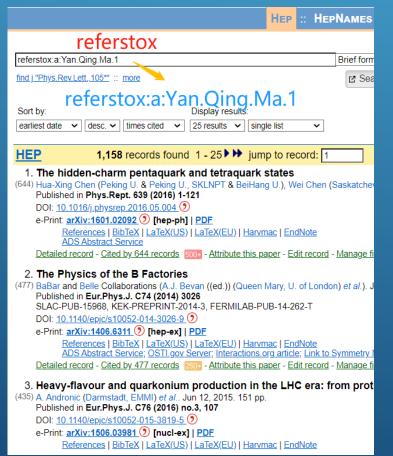
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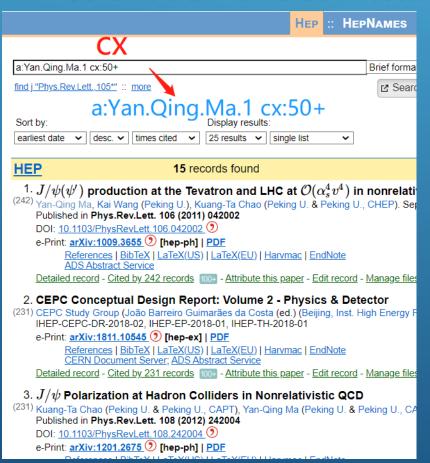


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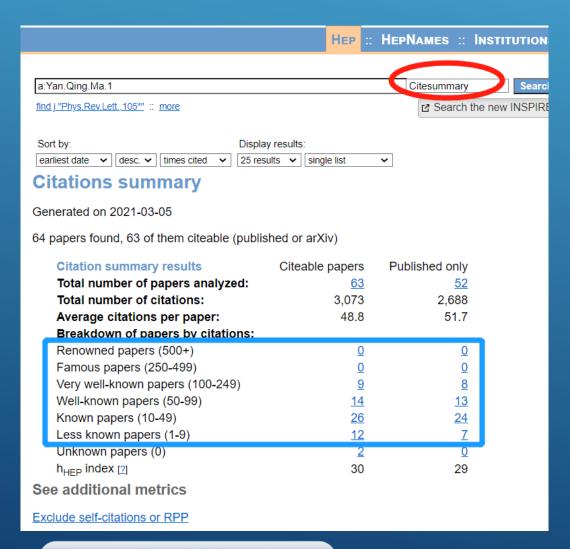
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The general headings are as follows: Michael Peskin



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General Relativity and Gravity, Normal and Exotic Stars, Ener

V. Nuclear and High-Density Strong Interactions

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General Aspects of Accelerator Physics, Linear Accelerators,

#### • I. Theoretical and Mathematical Physics [Top of page]

- I-a. Mathematics for Physics Applications
  - <u>I-a-1</u>. Functional Analysis
  - <u>I-a-2</u>. Group Theory
  - I-a-3. Differential Geometry and Tensors
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  - I-a-4. Statistical and Random Dynamics
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  - I-b-3. Scattering Theory
  - <u>I-b-4</u>. Group Theory in Quantum Mechanics
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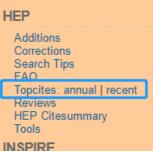
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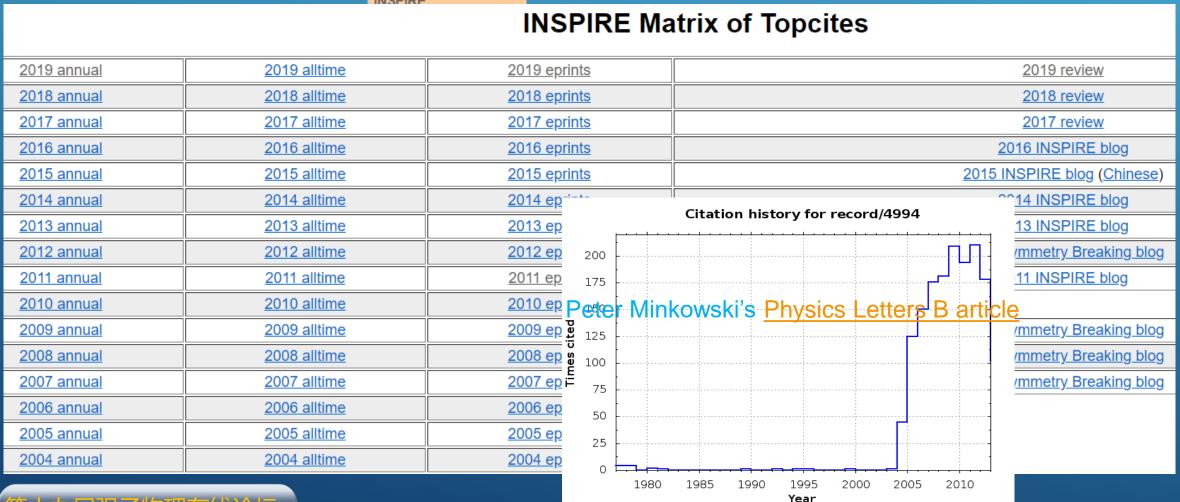
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Mukund Rangamani (UC, Davis (main) & UC, Davis, QMAP), Tadashi Takayanagi (Kyoto U., Yukawa Inst., Kyoto). Sep 5, 2016. 2-Published in Lect.Notes Phys. 931 (2017) pp.1-246

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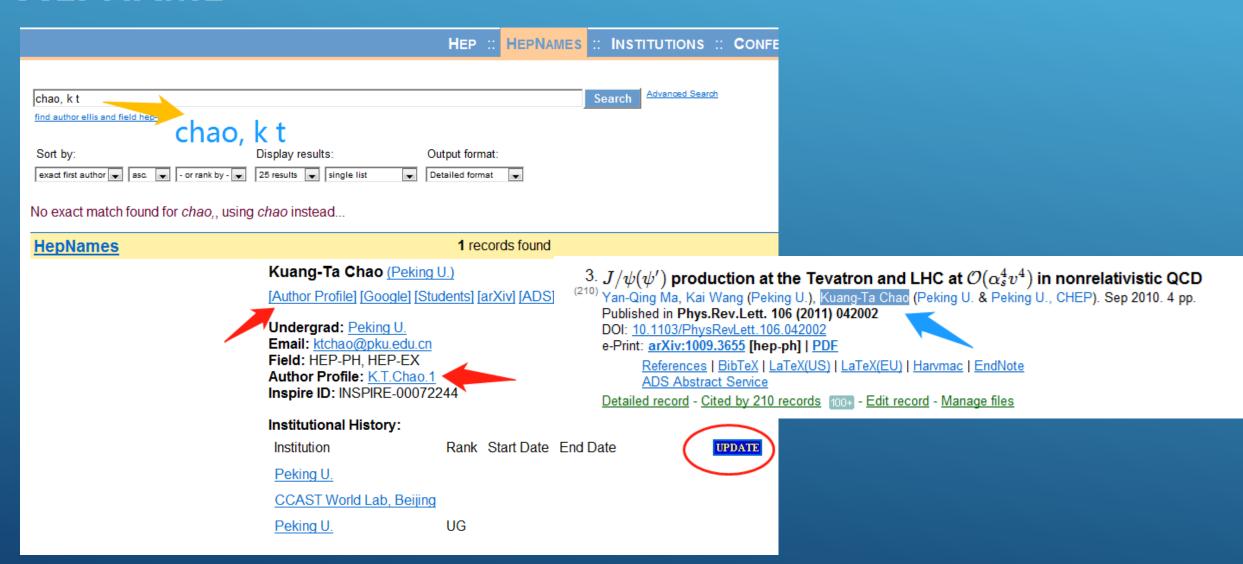
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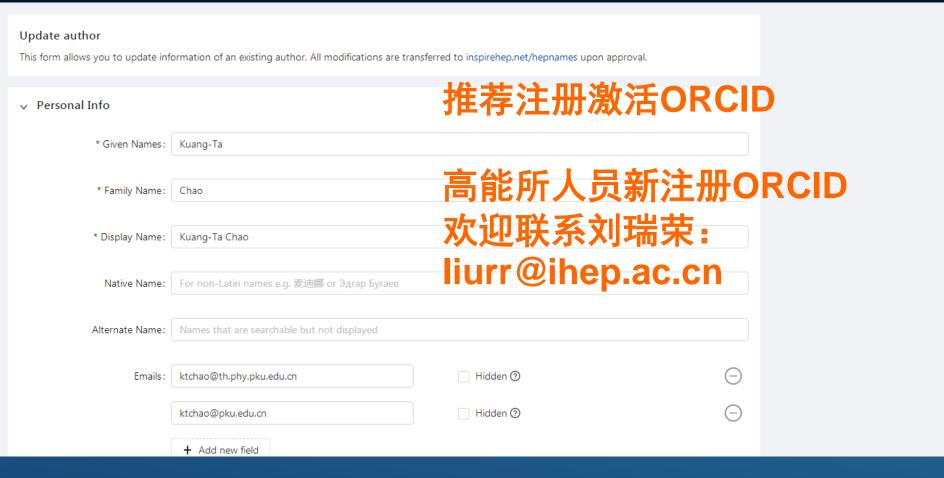
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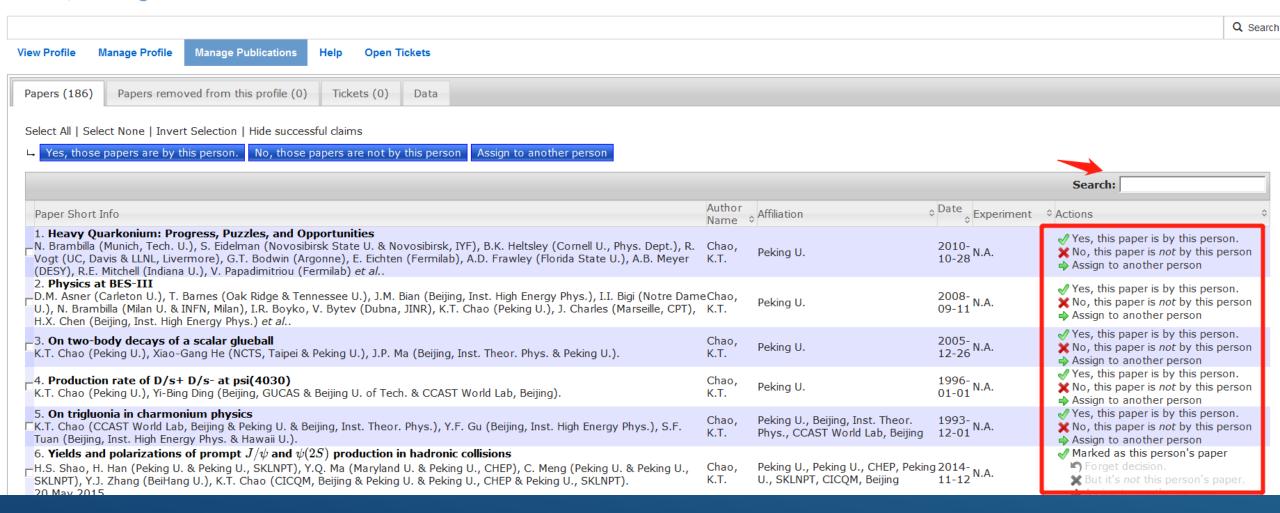
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# MANAGE PUBLICATIONS

### Chao, Kuang- Ta



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Undulant Universe - Barenboim, Gabriela et al. Phys.Rev. D71 (2005) 063533 astro-ph/0412010 FERMILAB-PUB-04-368-T

### **Update these references**



Observational evidence from supernovae for an accelerating universe and a cosmological constant - Supernova Search Team (Riess, Adam G. et al.) Astron.J. 116 (1998) 1009-1038 astro-ph/9805201

Measurements of Omega and Lambda from 42 high redshift supernovae - Supernova Cosmology Project Collaboration (Perlmutter, S. et al.) Astrophys.J. 517 (1999) 565-586 astro-ph/9812133 LBNL-41801

<u>First year Wilkinson Microwave Anisotropy Probe (WMAP) observations: Preliminary maps and basic results</u> - WMAP Collaboration (Bennett, C.L. *et al.*) Astrophys.J.Suppl. 148 (2003) 1-27 astro-ph/0302207

The Cosmological constant and dark energy - Peebles, P.J.E. et al. Rev.Mod.Phys. 75 (2003) 559-606 astro-ph/0207347 KSUPT-02-3

Measuring and understanding the universe - Freedman, Wendy L. et al. Rev.Mod.Phys. 75 (2003) 1433-1447 astro-ph/0308418 FERMILAB-PUB-03-247-A

TASI lectures: Introduction to cosmology - Trodden, Mark et al. astro-ph/0401547 SU-GP-04-1-1

Dark energy and the preposterous universe - Carroll, Sean M. astro-ph/0107571 EFI-2001-27

Precision cosmology? Not just yet... - Bridle, Sarah L. et al. Science 299 (2003) 1532 astro-ph/0303180

The Cosmological constant is back - Krauss, Lawrence M. et al. Gen.Rel.Grav. 27 (1995) 1137-1144 astro-ph/9504003 CWRU-P6-95, FERMILAB-PUB-95-063-A, FERMILAB-PUB-0095-063-A

Cosmological imprint of an energy component with general equation of state - Caldwell R.R. et al. Phys. Rev Lett. 80 (1998) 1582-1585 astro-ph/9708069

# FIX REFERENCE

### Reference correction

### **Undulant Universe**

Barenboim, Gabriela; Mena, Olga; Quigg, Chris

Published in Phys.Rev. D71 (2005) 063533

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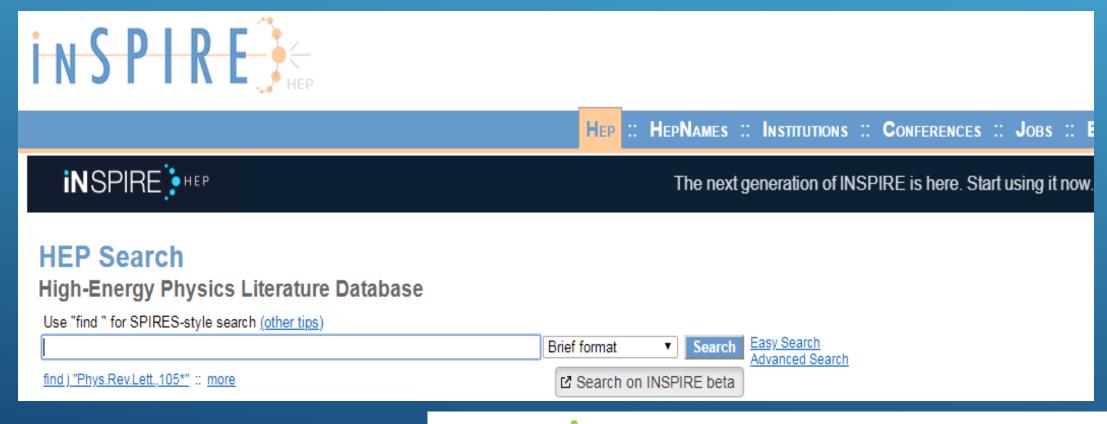


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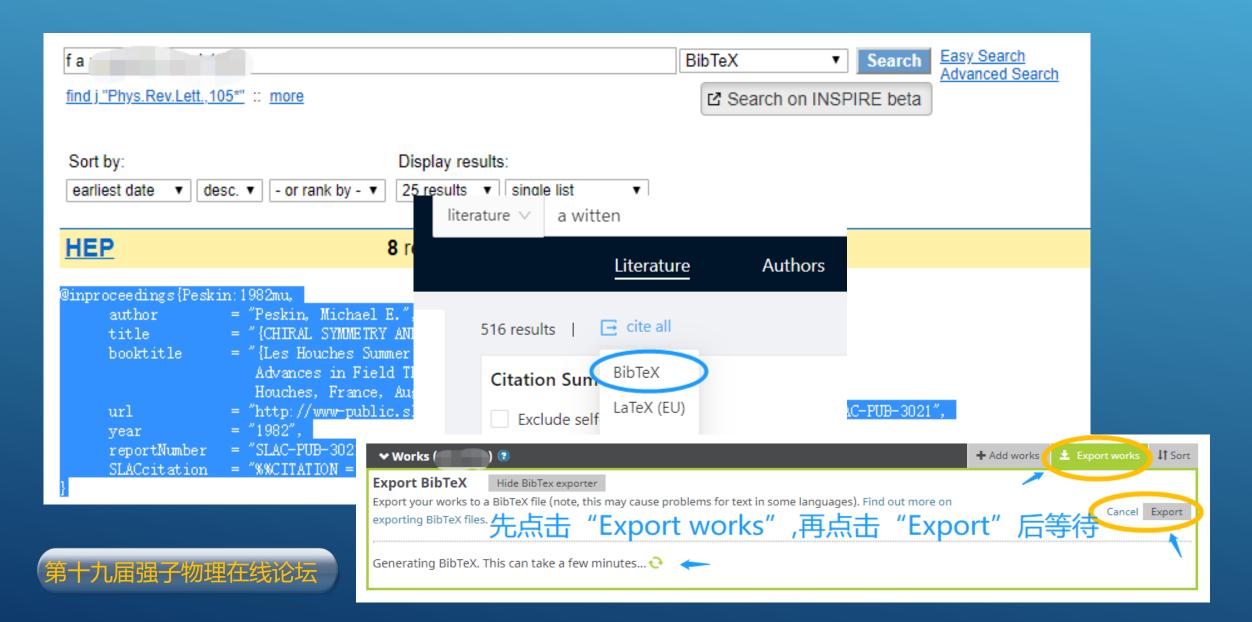
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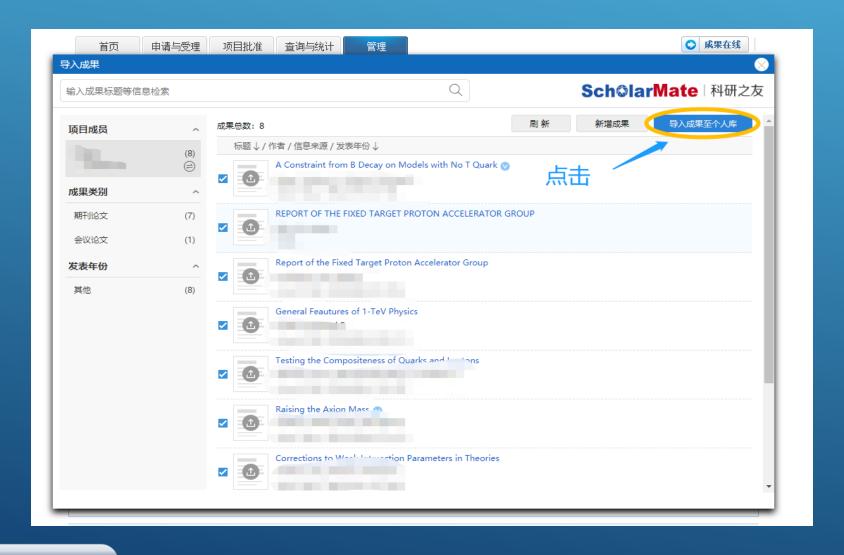


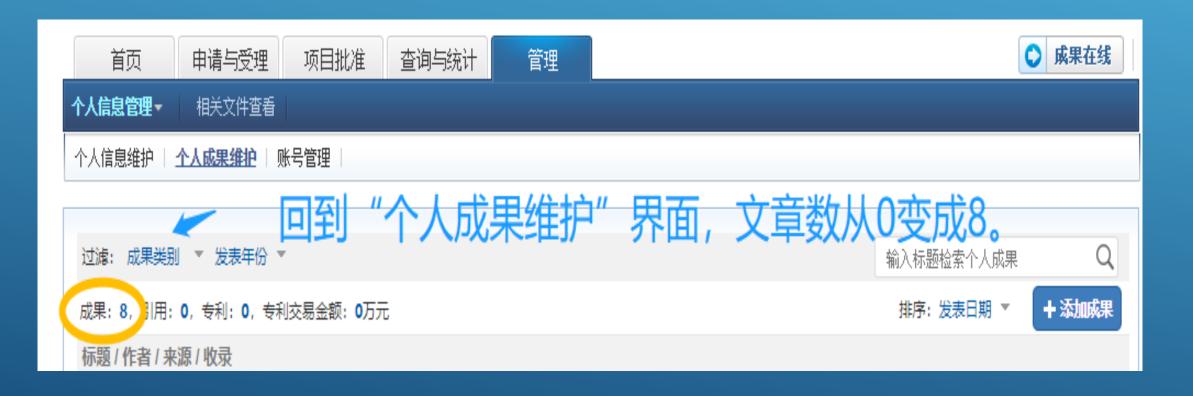


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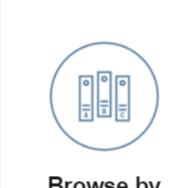
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Total Cites	78,709	<b>√</b> Trend					
Journal Impact Factor	5.156	Trend					
5 Year Impact Factor	n/a	Trend					
Immediacy Index	1.615	Trend					
Impact Factor without Journal Self Cites	3.229	Trend					

INFLUENCE ME	IRIOS	
Eigenfactor Score	n/a	Trend
Article Influence Score	n/a	Trend
Normalized Eigenfactor	n/a	Trend

SOURCE ME		
Citable Items	2,277	Trend
% Articles in Citable Items	96.88	Trend
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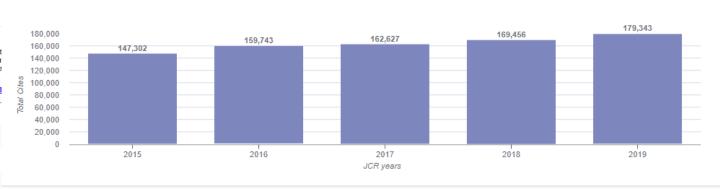


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Year 🛊	Total Cites 🕏	Journal ↓ Impact Factor ▼	Impact Factor without Journal Self Cites	5 Year Impact Factor ♥	Immediacy ▲ Index	Citable ▲ Items ▼	% Art ir Citable
	✓Trend	Trend	Trend	Trend	Trend	Trend	1
2019	179,343	4.833	3.077	4.012	1.609	3,679	
2018	169,456	4.368	2.815	3.786	1.716	3,531	
2017	162,627	4.394	2.940	3.797	1.514	3,367	
<u>2016</u>	159,743	4.557	3.009	3.910	1.938	3,356	
2015	147 302	4 506	2.890	3.805	1 683	3 369	



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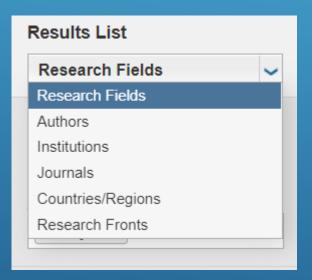
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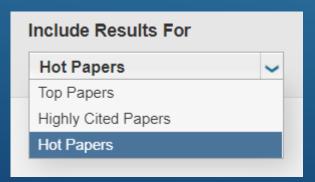
	Articles	Reviews	Combined(C)	Other(O)	Percentage(C/(C+O))
Number in JCR Year 2004 (A)	2,206	71	2,277	60	97%
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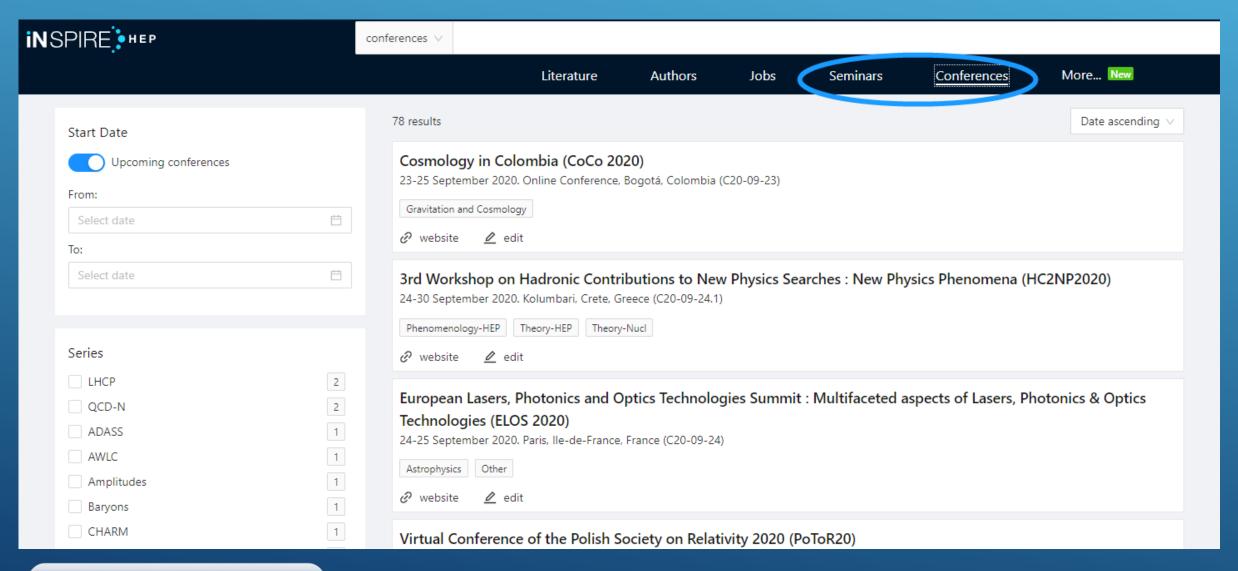
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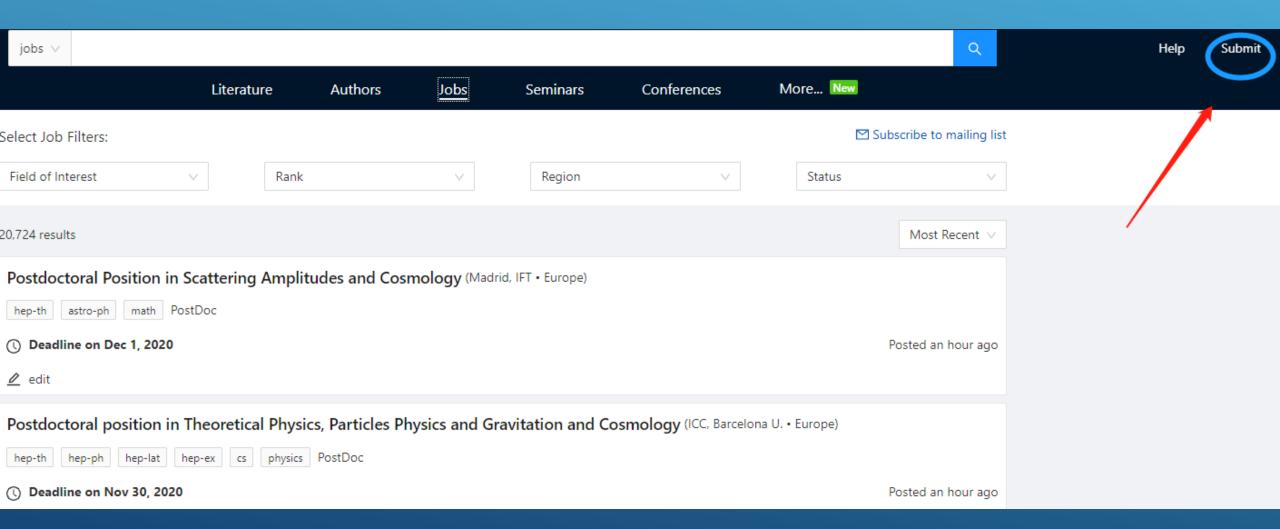


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Fixed Target Experiments 753 Collider Experiments 146		DarkMESA (Mainz U.) DarkMESA: Light Dark Ma DarkMESA Collaboration	atter Search at the I	MESA Beam Dump				
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Non-experimental 56  Other Rare-process/exotic experiments 39  Accelerator Test Facility Experiments 36		JLAB-E-98-109 (Jeffer Photoproduction of phi M		y Polarized Photons				
		Ø links						→ 0 papers
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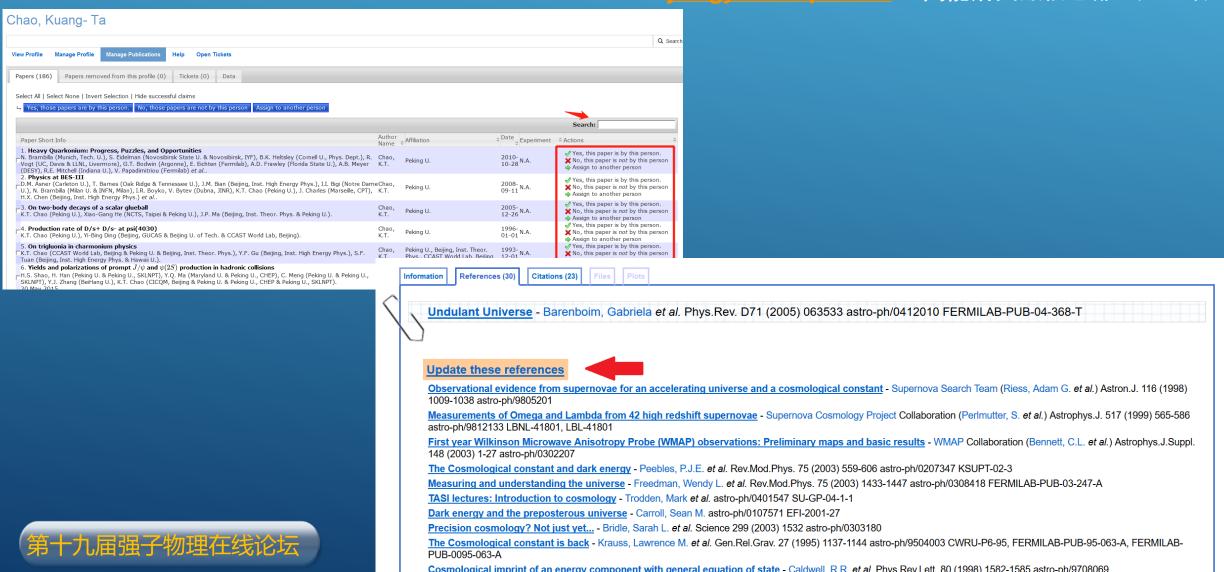
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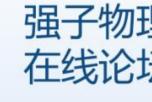
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