

高能物理开放信息环境适应 与发展探索

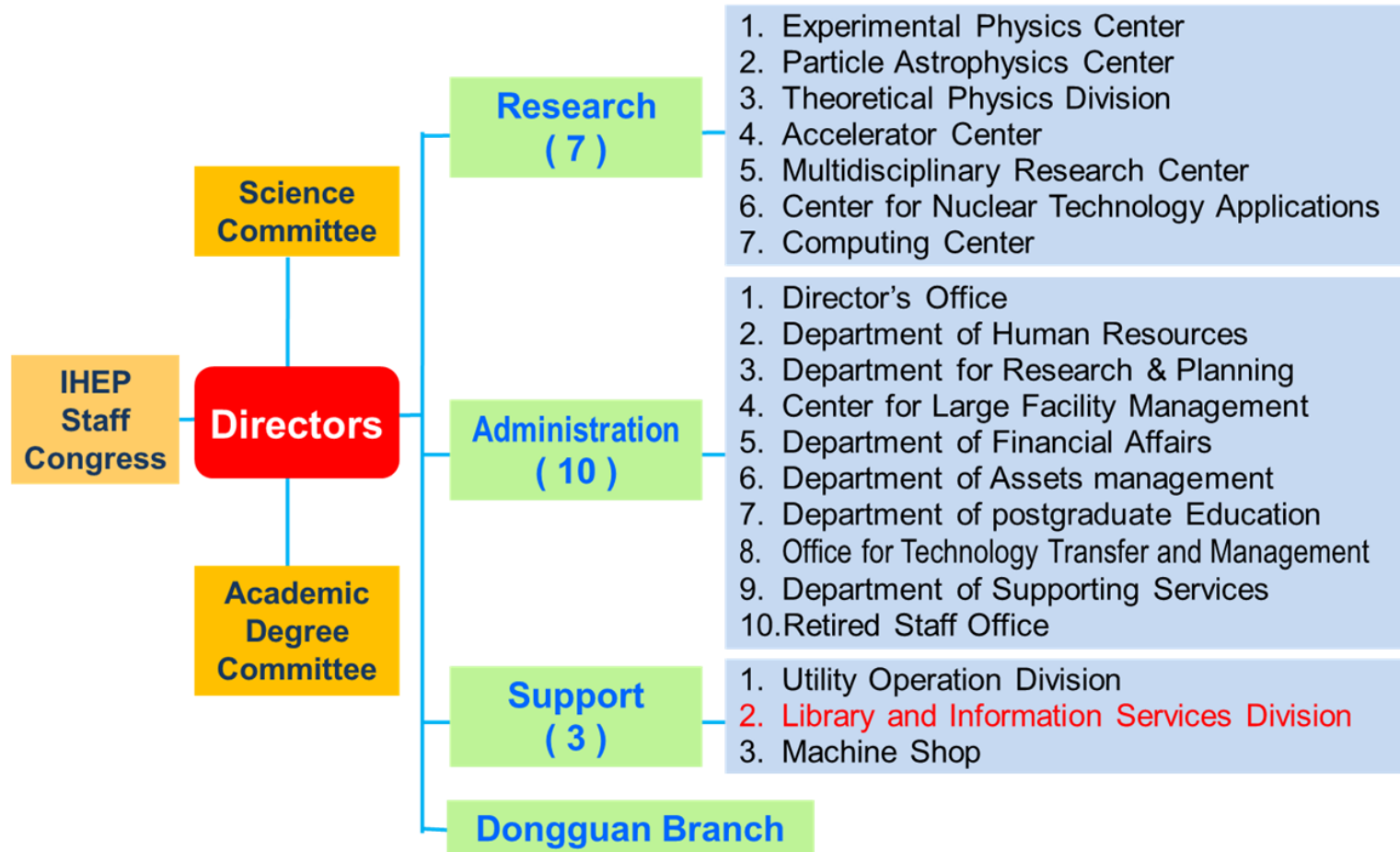
于润升

中科院高能物理所文献信息部
高校图书馆发展论坛，西安，2014-5-29

Outline

- ◆ 支撑服务对象简介
- ◆ 高能物理学术信息服务特点
- ◆ 高能物理开放信息环境适应与业务开拓
- ◆ 几条感想

IHEP organization chart



Main Research Disciplines of IHEP

Particle Physics

- HEP Exp. Based on Accelerators
- Particle Astrophysics & Neutrino Exp.
- Particle Detection and Electronics
- Particle Physics Theory

Accelerator Physics and Technologies

- High Luminosity Electron Accelerator
- High Intensity Proton Accelerator
- Applied Research and Technology Transfer

Radiation Technologies and Applications

- Synchrotron Radiation Techniques & Applications
- Neutron Scattering Techniques & Applications
- Nuclear Analytical Techniques & Applications

Science

Technology

Scientific infrastructure
for multi-disciplinary
studies

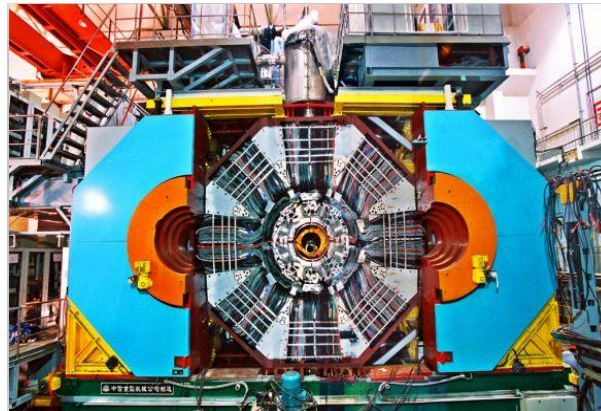
Main research Facilities



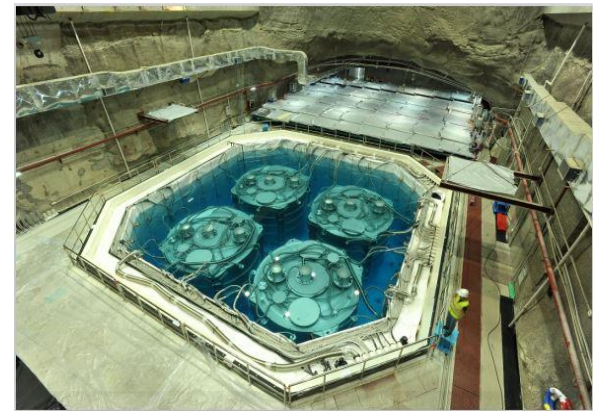
BEPC



BEPCII

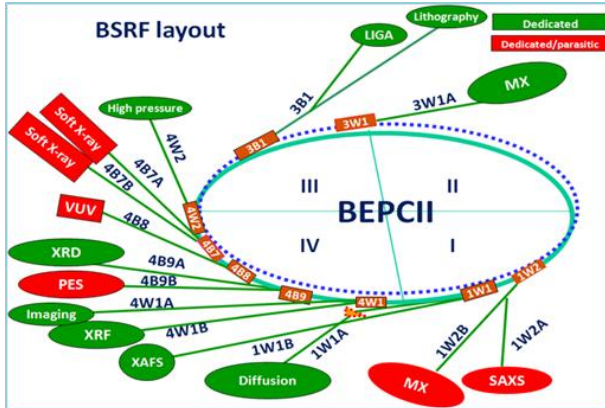


BESIII



Daya Bay

Main research Facilities



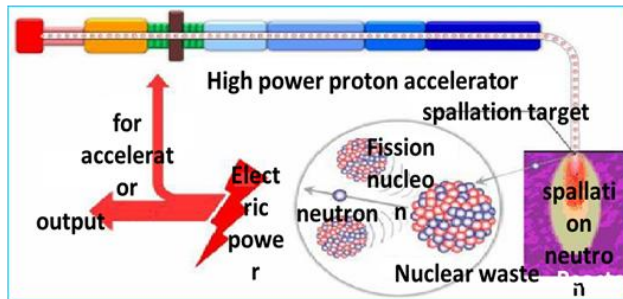
BSRF



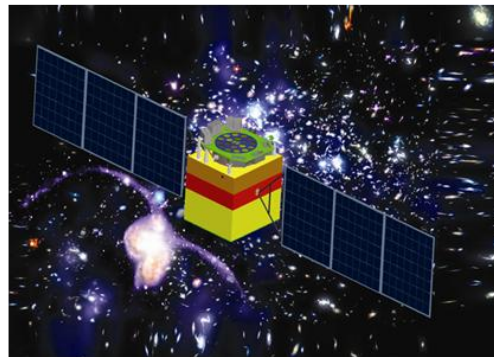
Yangbajing



CSNS



ADS



HXMT



BAPS

The BESIII Collaboration

Political Map of the World, June 1999

US (5)

Univ. of Hawaii
Carnegie Mellon Univ.
Univ. of Minnesota
Univ. of Rochester
Univ. of Indiana

Europe (13)

Germany: Univ. of Bochum,
Univ. of Giessen, GSI
Univ. of Johannes Gutenberg
Helmholtz Ins. In Mainz

Russia: JINR Dubna; BINP Novosibirsk

Italy: Univ. of Torino, Frascati Lab, Ferrara Univ.

Netherland: KVI/Univ. of Groningen

Sweden: Uppsala Univ.

Turkey: Turkey Accelerator Center

Korea (1)

Seoul Nat. Univ.

Japan (1)

Tokyo Univ.

Pakistan (2)

Univ. of Punjab
COMSAT CIIT

China (29)

IHEP, CCAST, GUCAS, Shandong Univ.,
Univ. of Sci. and Tech. of China
Zhejiang Univ., Huangshan Coll.
Huazhong Normal Univ., Wuhan Univ.
Zhengzhou Univ., Henan Normal Univ.
Peking Univ., Tsinghua Univ.,
Zhongshan Univ., Nankai Univ., Beihang Univ.
Shanxi Univ., Sichuan Univ., Univ. of South China
Hunan Univ., Liaoning Univ.
Nanjing Univ., Nanjing Normal Univ.
Guangxi Normal Univ., Guangxi Univ.
Suzhou Univ., Hangzhou Normal Univ.
Lanzhou Univ., Henan Sci. and Tech. Univ.

~400 members

52 institutions from 11 countries

~180 members from IHEP

Daya Bay collaboration

~250 Collaborators from 41 Institutions



Asia (22)

Beijing Normal Univ., CGNPG, CIAE, Dongguan Polytechnic, ECUST, IHEP, Nanjing Univ., Nankai Univ., NCEPU, NUDT, Shandong Univ., Shanghai Jiao Tong Univ., Shenzhen Univ., Tsinghua Univ., USTC, Xian Jiaotong Univ., Zhongshan Univ., Chinese Univ. of Hong Kong, Univ. of Hong Kong, National Chiao Tung Univ., National Taiwan Univ., National United Univ.

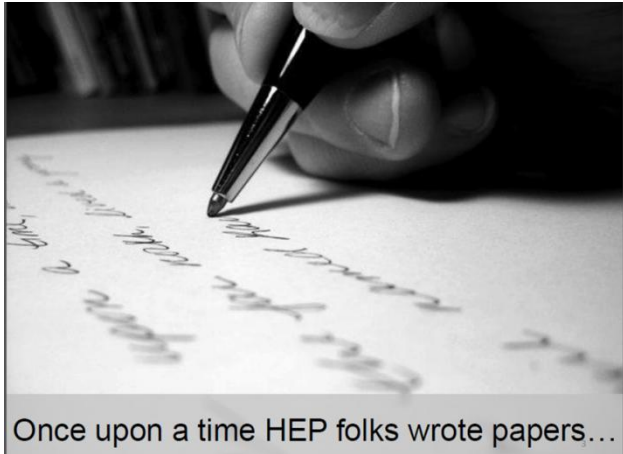
Europe (2)

Charles University, JINR Dubna

North America (17)

Brookhaven Natl Lab, CalTech, Illinois Institute of Technology, Iowa State, Lawrence Berkeley Natl Lab, Princeton, Rensselaer Polytechnic, Siena College, UC Berkeley, UCLA, Univ. of Cincinnati, Univ. of Houston, UIUC, Univ. of Wisconsin, Virginia Tech, William & Mary, Yale

For fast share of information-- preprints

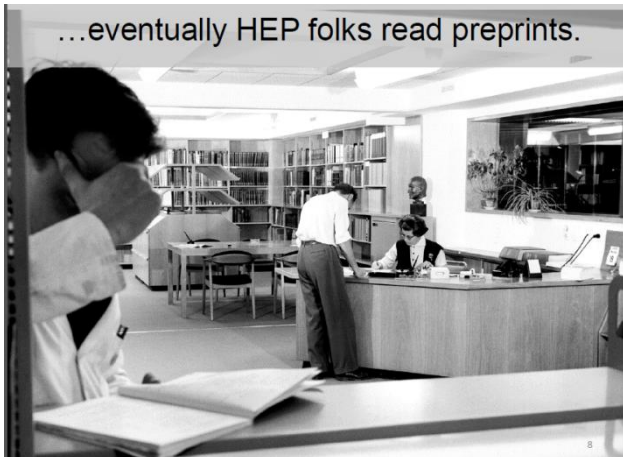


Once upon a time HEP folks wrote papers...

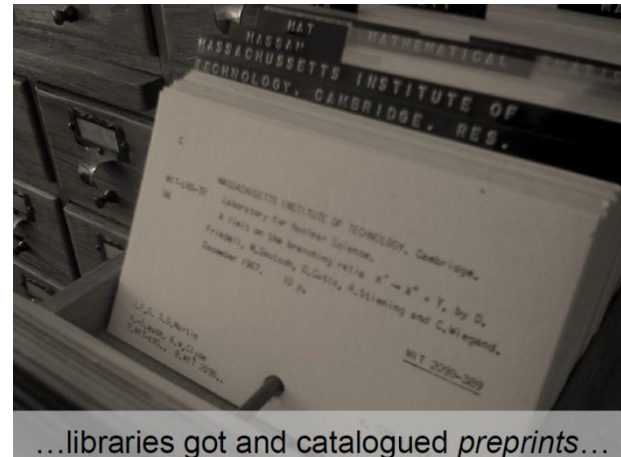


...then went to the mailroom...

For IHEP preprints collection: 1986-1996

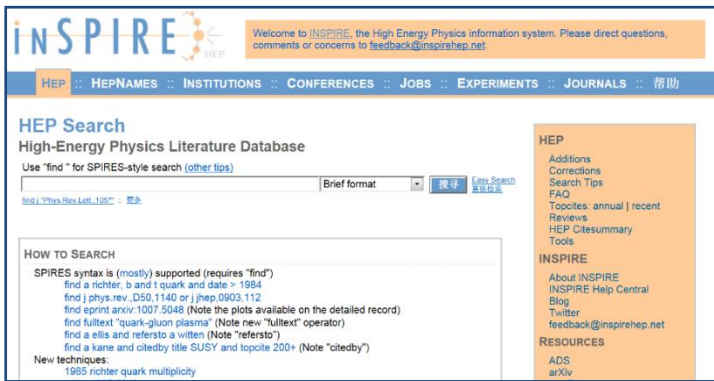


...eventually HEP folks read preprints.

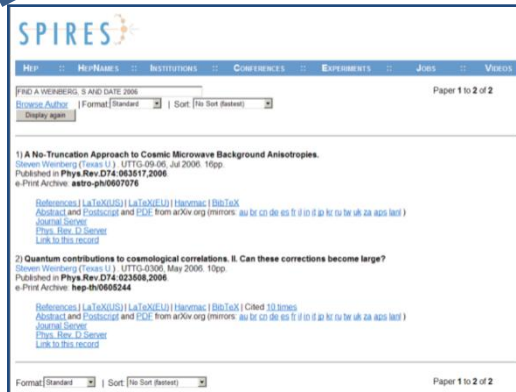


...libraries got and catalogued preprints...

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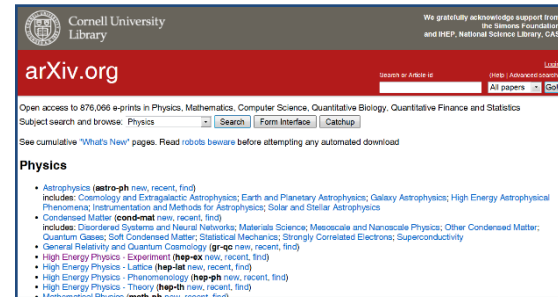
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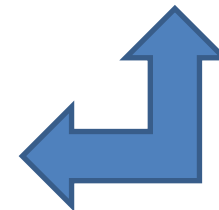
Since 1974,
Covers all HEP literature,
First grey literature electronic catalog,
1991, web interface, First US WEB server

hep-th@xxx.lanl.gov

14 August, 1991, first email submission



1991, Internet-based
Paul Ginsparg, LANL



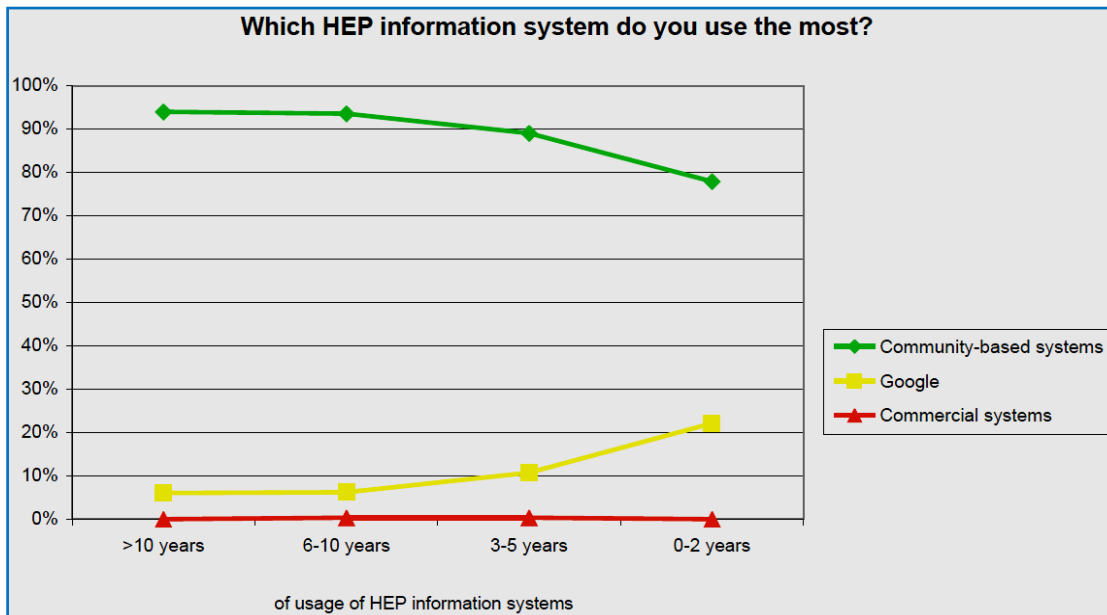
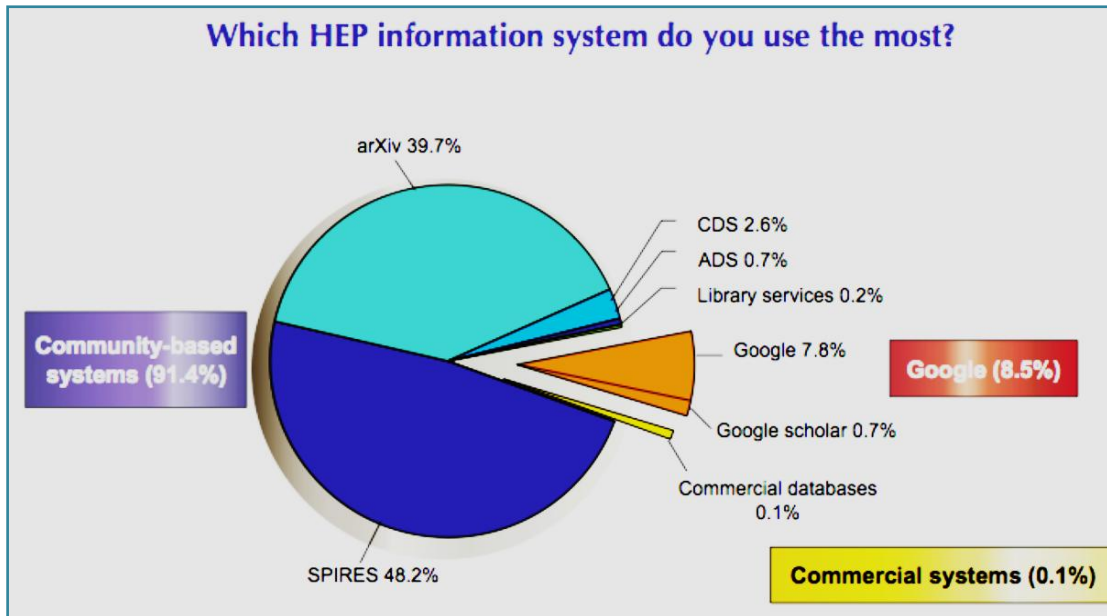
Summer 1992
Interlinking,
First Web-based OA application



1954-1994
CERN Preprint Repository



1996: onset of
the Google era



Publishers积极参与



**Summit of Information Providers in Astronomy,
Astrophysics and High Energy Physics (AAHEP-7)**

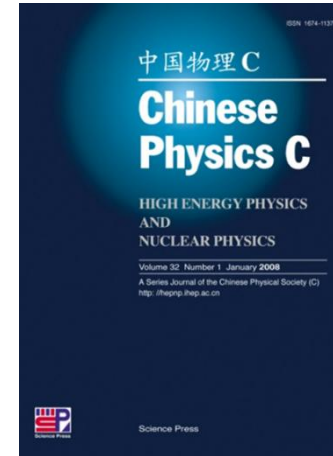
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Recent year OA practices at IHEP



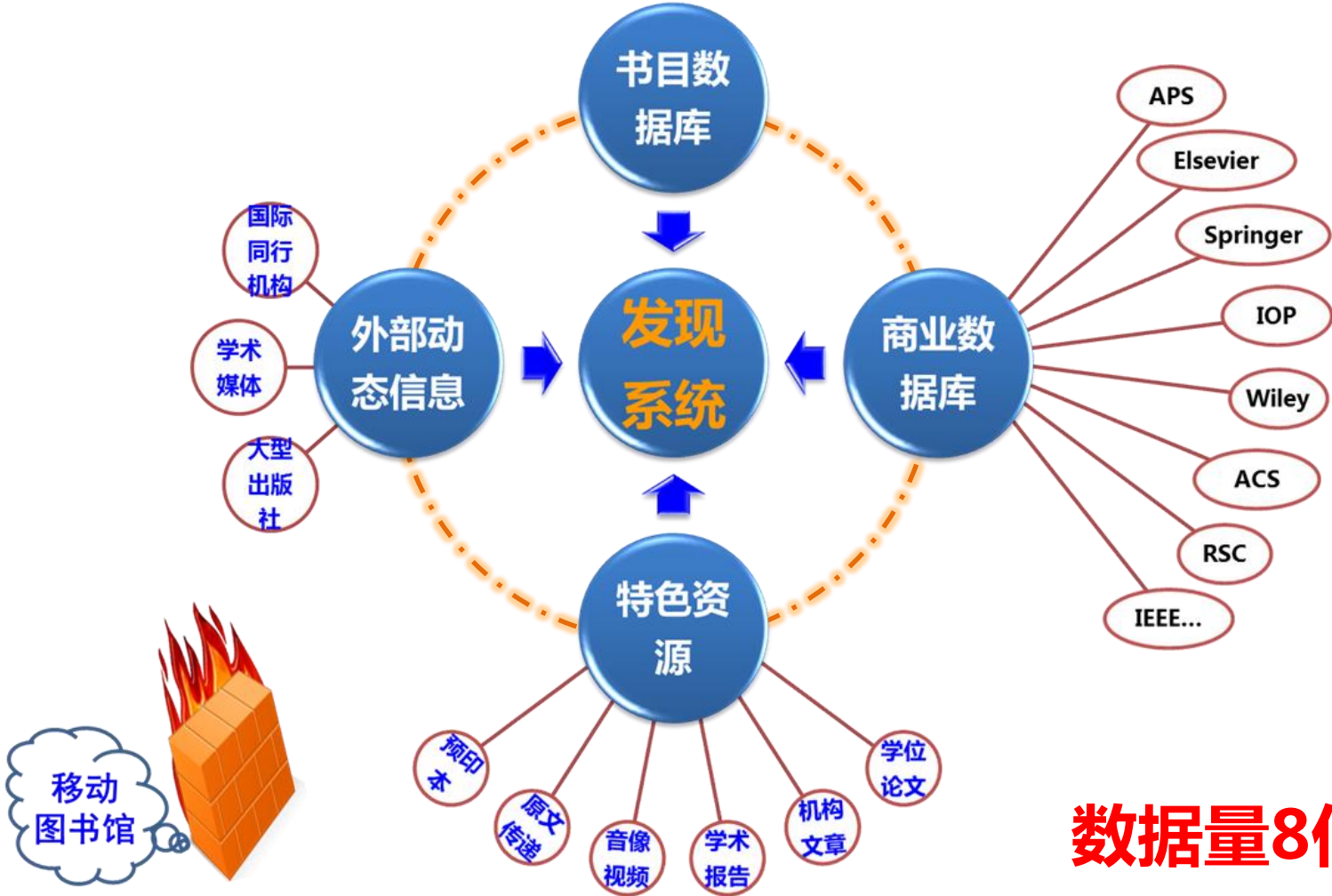
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- Institutional Repository
- INSPIRE collaboration

■ Journal publishing

- Chinese Physics C joins SCOAP³
- Chinese Physics C—winning bidder for publishing the PDG products

IR—数字资源扩展、系统整合的有机组成部分



数据量8亿余条

大装置异地建设

Screen shots of the systems

中国科学院高能物理研究所 | 科海搜索
Institute of High Energy Physics Chinese Academy of Sciences, One Stop Search

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高能物理 高级检索

高能物理
粒子物理学是研究组成物质和射线的基本粒子以及它们之间的相互作用的物理学的一个分支。由于许多基本粒子在大自然在一般条件下不存在或不单独出现，物理学家只有使用粒子加速器在能相撞的条件下才能生产和研究它们，因此粒子物理学也被称为“高能物理学”。

显示热门文章

Results 11 - 20 of 21,987 : 全部资源 排序: 相关性 1 2 3 4 5

中国科学院高能物理研究所
高科技与产业化 - High-Technology & Industrialization, 2011, Issue 05, pp.86-86
中国科学院高能物理研究所（简称高能所）是我国高能物理研究、先进加速器技术的研究开发、先进射线技术及射线应用的综合性研究基地，是依托大科学装置开展基础研究和应用基础研究的大型综合性研究所。 ;ISSN: 1006-2222
● 在线全文
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谢家麟：为高能物理“加速”
操秀英
作文升级, 2012, Issue 06, pp.36-37
他曾成功研制世界上第一台以高能重电子束治疗肿瘤直线加速器、中国第一台对撞机——北京正负电子对撞机、亚洲第一台实现饱和振荡的自由电子激光装置，以及新型电子直线加速器等多项站在世界前沿的项目。其中，有两项是世界首创，另三项填补了国内重要空白。 ;ISSN: 1008-3405
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谢家麟：为高能物理“加速”
华辛；王新民
少儿科技 - Science and Technology for the Early Youth, 2012, Issue 06, pp.23-24
1.2012年2月14日，中国科学院院士、著名加速器物理学家谢家麟，站在人民大会堂的领奖台上，领取了2011年度国家最高科学技术奖。他引领我国高能粒子加速器从无到有并跻身世界前沿。 ;ISSN: 1671-3923
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中央领导支持中国高能物理研究
李春明
党史博览 - General Review of the Communist Party of China, 2011, Issue 11, pp.9-13
2009年7月17日，新华社发布消息：中国重大科学工程——北京正负电子对撞机重大改造工程顺利通过国家竣工验收。该工程采用最先进的双环交叉对撞技术，创造性地克服了储存环隧道狭窄、对撞区短困难，最大限度地利用原有设施，设计对撞高度较原来提高30倍至100倍。 ;ISSN: 1005-1686
● 在线全文

来源

- 维普资讯 (Chongqing VIP Information Co.) (8,660)
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作者

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- 陈和生 (74)
- 黄涛 (72)
- 陈刚 (68)
- 郑志鹏 (67)
- 朱永生 (62)
- 刘振安 (57)
- 中国科学院高能物理研究所 (48)
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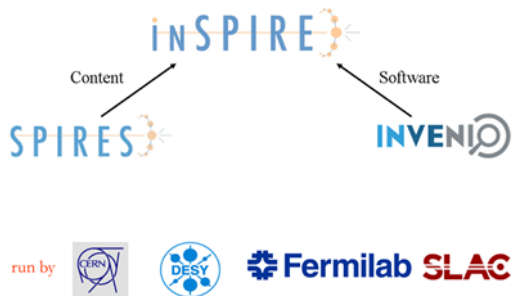


April 8

June 6, June 19 (IHEP/Fermilab/CERN), Nov. 4, Dec. 13



<http://inspirehep.net/info/general/project/index>



Fermilab



*Institute of High Energy Physics
Chinese Academy of Sciences*

SLAC
NATIONAL ACCELERATOR LABORATORY

in 1994, IHEP became the first institution in the country to have a fully operational world-wide Internet connection

SLAC-PUB-6478
April 1994
(M)

Networking With China*

R. L. A. Cottrell, Charles Granieri

Stanford Linear Accelerator Center, Stanford University, Stanford, California, USA

Lan Fan, Rongsheng Xu

Institute of High Energy Physics, Beijing, China

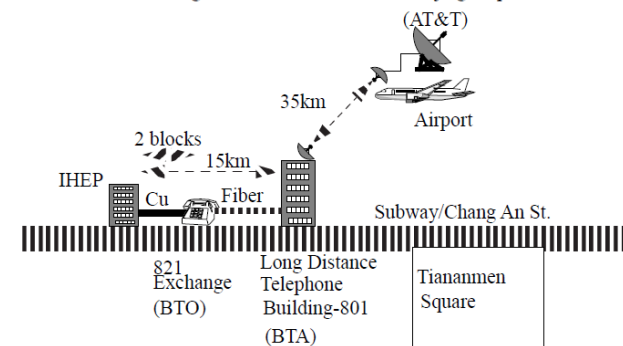
Yukio Karita

KEK National Laboratory for High Energy Physics, Tsukuba, Japan

Abstract

ules proposed, an AT&T SkyNet satellite link was chosen (Figure 1, Path 3). The contract with AT&T was signed in January 1992. The US cost was about \$5,500 installation and \$5,000/month. IHEP pays a similar amount in Chinese currency for the Beijing end of the link.

Figure 2: Link from IHEP to Beijing Airport



Considerable problems were encountered getting the link from the Beijing airport to IHEP between January 1992 and March 1993. The paths involved in this link are shown in Figure 2. The original plan was to use 64 kbps microwave modems between IHEP and the local 821 phone exchange. However, these were not able to deliver satisfactory service. Instead it was decided to try existing copper links. Then there were problems interfacing between the copper and optical fibers running from the local phone exchange to the satellite earth station located at the Be-

Work Schedule

		Authors of BES,BESII,BESIII (total: 474)										Other Authors		
Group members	Time Assignment	2014										2015		
		1	2	3	4	5	6	...	10	11	12	1	2	...
R.R.Liu	Record Editing	15	10	30	30	30	30	...	30	30	30	10	10	...
	PBL- cleaning	14	14	30	30+	20+	20+	...	20+	20+	20+	10+	10+	...
C.M.Zhao	Authors info- collecting	15	10	30	30+	30+	30+	...	30+	30+	30+	10+	10+	...
S.Weng	PBL- cleaning	8	6	10	10+	10+	10+	...	10+	10+	10+	5+	5+	...
K.Q.Ma	PBL- cleaning					10+	10+	...	10+	10+	10+	5+	5+	...

“Wang”, 95 million
 “Li”, 93 million
 “Zhang”, 90 million



TOP3 makes 21% of total population (1,300,000,000)
 100 family names make 85%

For US, TOP100 only makes 16%
 150000 family names make 90%

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Chang-Zheng, Yuan

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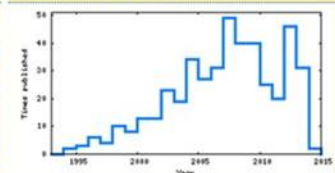
Publications list

- 436. Studies of $\chi(2230)$ in J/ψ radiative decays
- 437. Structure analysis of the $f_0(J)$ (1710) in the radiative decay $J/\psi \rightarrow \gamma K^+ K^-$
- 438. Amplitudes analysis of the $\iota(1440)$ in the J/ψ radiative decay to the K anti- K pi final state
- 439. Measurement of the pseudoscalar decay constant, $f(D)$
- 440. Search for a vector glueball by a scan of the J/ψ resonance
- 441. Precision measurement of J/ψ leptonic branching fraction
- 442. Experimental study of $f_0(975)$ in J/ψ decays
- 443. Measurement of the mass of the tau lepton
- 444. A Direct measurement of the $D(s)$ branching fraction to ϕ pi
- 445. A Direct measurement of the pseudoscalar decay constant, $f(D(s))$
- 446. A Measurement of J/ψ decay widths

Papers

	All papers	Single authored
All papers	446	13
Book	0	0
ConferencePaper	57	10
Introductory	0	0
Lectures	0	0
Published	365	1
Review	12	4
Thesis	0	0
Proceedings	1	1

Publications per year



Subject categories

- Experiment-HEP (422)
- Phenomenology-HEP (45)
- Instrumentation (11)
- Experiment-Nucl (2)
- Lattice (2)
- Accelerators (1)
- Theory-Nucl (1)

Frequent keywords

- electron positron: annihilation (342)
- experimental results (295)
- BES (236)
- Beijing Stor (222)
- electron positron: colliding beams (206)
- BELLE (102)
- 3.1 GeV-cms (59)
- KEK-B (56)
- psi(3685): electroproduction (54)
- psi(3685): hadronic decay (52)
- [more](#)

Citations (from papers in INSPIRE)

Citations summary

Generated on 2014-02-20

446 papers found, 439 of them citeable (published or arXiv)

Citation summary results	Citeable papers	Published only
Total number of papers analyzed:	439	365
Total number of citations:	16,629	14,699
Average citations per paper:	37.9	40.3
Breakdown of papers by citations:		
Renowned papers (500+)	3	2
Famous papers (250-499)	2	2
Very well-known papers (100-249)	29	26
Well-known papers (50-99)	48	44
Known papers (10-49)	174	156
Less known papers (1-9)	146	110
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hHEP index [?]	64	62

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HepNames data

Changzheng Yuan (苑长征) (Beijing, Inst. High Energy Phys.)
[\[Author Profile\]](#) [\[Google\]](#) [\[Students\]](#) [\[arXiv\]](#) [\[ADS\]](#)

PhD Advisor: Ho, Zah-Wei; Gu, Yifan
Email: yuan cz@ihep.ac.cn
Field: HEP-EX
Experiment: KEK-BF-BELLE, BEPC-BES-III, BEPC-BES, KEK-BF-BELLE-II
Author Profile: C.Z.Yuan.2
Inspire ID: INSPIRE-00137773

Institutional History:

Institution	Rank	Start Date	End Date	UPDATE
Beijing, Inst. High Energy Phys.	SENIOR	2001		
Orsay, LAL	PD	1999	2001	
CCAST World Lab, Beijing	PD	1997	1999	

Name variants

- Yuan, Changzheng (6)
- Yuan, Chang-Zheng (39)
- Yuan, C.Z. (363)
- Yuan, C. (37)
- Chang-Zheng, Yuan (1)

Affiliations

- Beijing, Inst. High Energy Phys. (275)
- Orsay, LAL (38)
- Shandong U. (7)
- Hefei, CUST (7)
- CCAST World Lab, Beijing (2)
- CERN (2)
- Hunan U. (2)
- Nanjing Normal U., Sch. Phys. Sci. Technol. (1)

Frequent co-authors (excluding collaborations)

- X.H.Mo.1 (48)
- P.Wang.2 (37)
- C.D.Fu.1 (22)
- R.G.Ping.1 (22)
- C.C.Zhang.1 (21)
- K.L.He.1 (21)
- Y.S.Zhu.2 (21)
- H.B.Li.3 (20)
- J.Y.Zhang.2 (20)

Collaborations

- BES Collaboration (159)
- Belle Collaboration (101)
- BESIII Collaboration (52)
- ALEPH Collaboration (39)
- BELLE Collaboration (8)
- Belle collaboration (3)
- The BESIII Collaboration (2)
- ILC Collaboration (2)
- BESIII Collaboration (1)
- BESIII Collaboration (1)



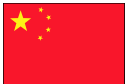
■ SCOAP³ Journals—publishers

■ Elsevier

- Physics Letters B
- Nuclear Physics B

■ Hindawi

- Advances in High Energy Physics



■ Institute of Physics Publishing / Chinese Academy of Sciences

- Chinese Physics C

■ Institute of Physics Publishing/SISSA

- Journal of Cosmology and Astroparticle Physics

■ Institute of Physics Publishing/Deutsche Physikalische Gesellschaft

- New Journal of Physics

■ Jagiellonian University

- Acta Physica Polonica B

■ Oxford University Press/Physical Society of Japan

- Progress of Theoretical and Experimental Physics

■ Springer/Societ  Italiana di Fisica

- European Physical Journal C

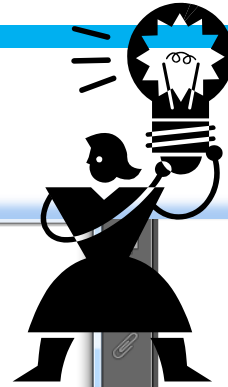
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19:35 [Oblique parameters in gauged baryon and lepton numbers with a 125 GeV Higgs](#) / Yuan Chang-Zheng
In an extension of the standard model, where baryon number and lepton number are local gauge symmetries, we analyze the initial single pion emission (ISPE) mechanism is applied to the processes $\Upsilon(5S) \rightarrow \pi B^{(*)} \bar{B}^{(*)}$, whose details have been published in *Chinese Phys. C* 38 (2014) 053101 [10.1088/1674-1137/38/5/053101](#)
Fulltext: [PDF](#) [XML](#);
- 2014-05-13
19:35 [Interpretation of Zb\(10610\) and Zb\(10650\) in the ISPE mechanism and the Charmonium](#) / Yuan Chang-Zheng
The initial single pion emission (ISPE) mechanism is applied to the processes $\Upsilon(5S) \rightarrow \pi B^{(*)} \bar{B}^{(*)}$, whose details have been published in *Chinese Phys. C* 38 (2014) 053102 [10.1088/1674-1137/38/5/053102](#)
Fulltext: [PDF](#) [XML](#);
- 2014-05-12
11:14 [O\(\$\alpha_s^2\$ \) correction to J/ \$\psi\$ plus \$\eta_c\$ production in \$e^+e^-\$ annihilation at \$\sqrt{s} = 10.6\$ GeV](#) / Yuan Chang-Zheng
Based on the nonrelativistic QCD factorization approach, $O(\alpha_s^2)$ corrections to J/ ψ plus η_c production in e^+e^- annihilation are calculated. The results are published in *Chinese Phys. C* 38 (2014) 043101 [10.1088/1674-1137/38/4/043101](#)
Fulltext: [PDF](#) [XML](#);
- 2014-05-12
11:12 [Evidence for resonant structures in \$e^+e^- \rightarrow \pi^+\pi^-hc\$](#) / Yuan Chang-Zheng
The cross sections of $e^+e^- \rightarrow \pi^+\pi^-hc$ at center-of-mass energies from 3.90 to 4.42 GeV were measured by the BESIII experiment. The results are published in *Chinese Phys. C* 38 (2014) 043001 [10.1088/1674-1137/38/4/043001](#)
Fulltext: [PDF](#) [XML](#);
- 2014-03-22
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Meson decays in an extended Nambu-Jona-Lasinio model with heavy quark flavors

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Abstract: In a previous work, we proposed an extended Nambu-Jona-Lasinio (NJL) model including heavy quark flavors. In this work, we will calculate strong and radiative decays of vector mesons in this extended NJL model, including light ρ , ω , K^* , ϕ and heavy D^* , D_s^* , B^* , B_s^* .

Key words: NJL model, heavy meson, heavy quark limit

PACS: 12.39.Fe, 12.39.Hg, 14.40.-n **DOI:** 10.1088/1674-1137/38/1/013103

1 Introduction

The Nambu-Jona-Lasinio (NJL) model [1, 2], in its original form as a pre-QCD theory, was constructed of nucleons that interact via an effective two-body contact interaction. The model was later reinterpreted as a theory of quark degrees of freedom [3, 4]. The most important feature of the NJL model is the chiral symmetry of the Lagrangian plus a chiral symmetry breaking ground state. The model was generalized to the $SU(3)_c$ case of light quark flavors in Refs. [5-9].

On the other hand, for heavy quark flavors, the chiral symmetry no longer holds. However, new important symmetries, such as the spin symmetry that was discovered in heavy ($Q\bar{q}$)-mesons [10], which is a consequence of the order $1/m_Q$ of the spin-spin interaction in the effective quark potential [11]. In Ref. [12], the NJL model was generalized to include heavy flavors. Both the chiral symmetry in the light meson sector and the spin symmetry in the heavy meson sector were reproduced with the vector-current interaction. The bosonization technique was used there to obtain an effective Lagrangian of the meson degrees of freedom.

However, as already shown in Ref. [5], the vector-current interaction only is not enough to reproduce the experimental masses of light vector mesons, such as ρ , K^* etc. Other chiral symmetrical interactions, such as the axial-vector-current one, are needed to get satisfactory results for the light meson sector. However, these additional interactions do not obey the spin symmetry in the heavy meson sector since they generate the incorrect spin-spin interaction that is not $1/m_Q$ suppressed.

In the above work [12], the authors just introduced two coupling constants G_1 and G_2 for the light meson sector and another different coupling G_3 for the heavy meson sector.

In our previous work [13], we proposed a solution to extend the NJL model to comprise the heavy quark flavors. The NJL interactions were expanded with respect to $1/m_c$ of constituent quark mass m_c , just like the expansion in the heavy quark effective theory (HQET). Naturally, the vector-current interaction is dominant while other interactions, such as the typical axial-vector-current one, should be $1/m_c$ suppressed. We had performed numerical calculations for both the light and heavy meson sectors. The mass spectra fit the experimental data quite well. The decay constants of heavy mesons were smaller than the experimental values, roughly by a factor of 2.

The strong and radiative decays provide us with important information about hadron structure. Experimentally, the decay widths of light vector mesons have been well measured [14-19] and so far, some decay widths or ratios of the charmed and bottom heavy vector mesons have been reported [20-22].

Generally speaking, it is a rigid test for any model to fit the experimental values of the decay width or ratio. The most popular model for strong decay is the 3P_0 model [23, 24]. This model has been applied to a great number of decay processes [25-28]. The radiative decays, mainly the M1 transition, which takes place when one of the constituent quark changes its spin and radiates one photon, has been studied in potential quark models [29, 30] or from flavor symmetry [31]. For decays

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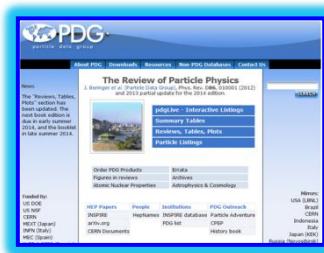
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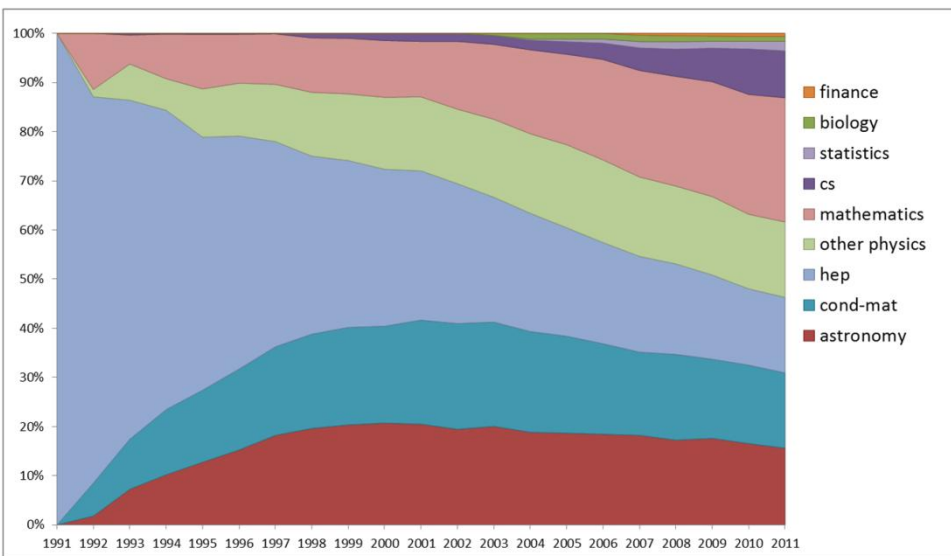


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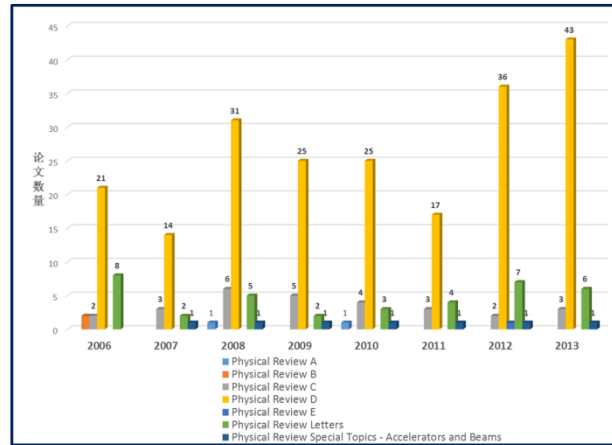
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