

# Open Access –SCOAP3

- What is SCOAP3
- OA @ DESY
- Current situation
- Perspectives

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# SCOAP3

Sponsoring Consortium for  
Open Access Publishing in Particle Physics

- Initiated by CERN  
to publish all LHC articles in OA
- Participation of institutes, libraries, collaborations, funding agencies ... from many European countries

## Aims of SCOAP3:

- elimination of access barriers to journal articles  
in particle physics
- maintenance of the well-established peer-review system
- cost reduction



# OA Variants

- Full OA
  - Conversion of traditional journals
  - Foundation of new journals
    - Sponsoring or publication charges, no subscription
    - Favored for pure particle physics journals
- Hybrid model
  - Subscription based, OA for some articles via publication charge
  - Adequate for mixed journals (e.g. Phys. Rev. Lett.)
  - **Danger of paying twice**

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# Time Schedule (driven by LHC)

- ✓ Setup of Task Force in Dec 2005  
(authors, publishers and funding agencies)
- ✓ Report of the Task Force issued on 22 Jun 2006
- ✓ Interim working group established Nov 3 at CERN
  - Progress report of Interim WG by Jan 15, 2007
  - Decision of consortium partners till end of Feb 2007
  - Tendering process approx. 6 months
  - Full OA publishing starting Jan 2008 (start-up of LHC)

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# Interim Working Group

## Tasks:

- Find consortium partners in home countries
- Develop cost-sharing model
- Clarify legal national issues
- Formulate criteria for publishers to be accepted as SCOAP partners

## Participating institutions:

- CERN, DESY, MPG, ECFA, IN2P3, CEA, INFN, NIKHEF, GASCO and others

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# DESY Support for SCOAP

- Letter from A. Wagner:  
“DESY fully supports Open Access Publishing in Particle Physics and we would like to see it realized within a short time scale. It is of great importance for DESY to be actively and constructively involved in the forthcoming discussions aiming at establishing a Sponsoring Consortium.”
- R. Heuer at SCOAP3 meeting Nov 3, 2006
- Active participation in interim working group (AH)

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# OA Status at DESY

- Green road well established (Institutional repository)
  - Use PubDB to store fulltext
  - Author annex:

“The foundation Deutsches Elektronen-Synchrotron shall be entitled to make the authors version of the article freely accessible to the general public on the internet or in some other form at the time of publication (alternatively 3 or 6 months after the article’s publication).”
  - Disadvantage: various archived versions possible, might not represent the final content
- Commitment to golden road (OA journals)
  - All scientists are asked to preferably publish in open access journals (Rundschreiben 45/2006)

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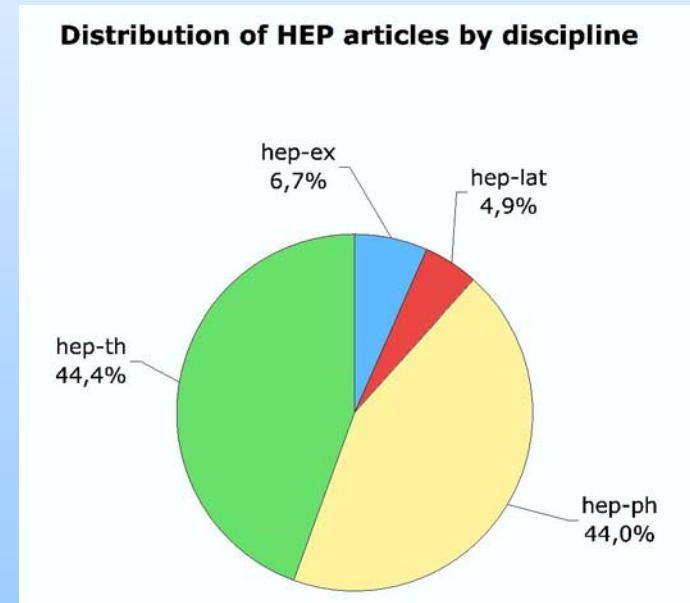


# Study on Publication Landscape

CERN sample concentrates on core HEP  
(about half of all peer-reviewed HEP journal articles)

CERN-OPEN-2006-065 , cs.DL/0611130

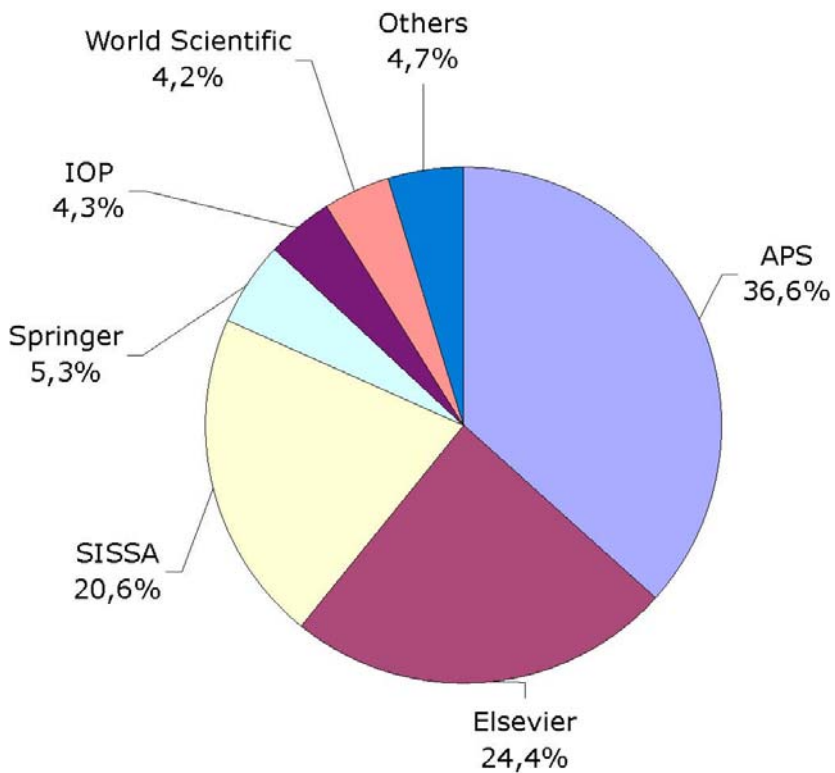
- 5016 hep-ex / hep-lat / hep-ph / hep-th eprints from 2005 that appeared in peer-reviewed journals
- 83% published in 6 journals: PRD, JHEP, PLB, NPB, PRL, EPJC
- 87% published by 4 publishers: APS, Elsevier, SISSA, Springer



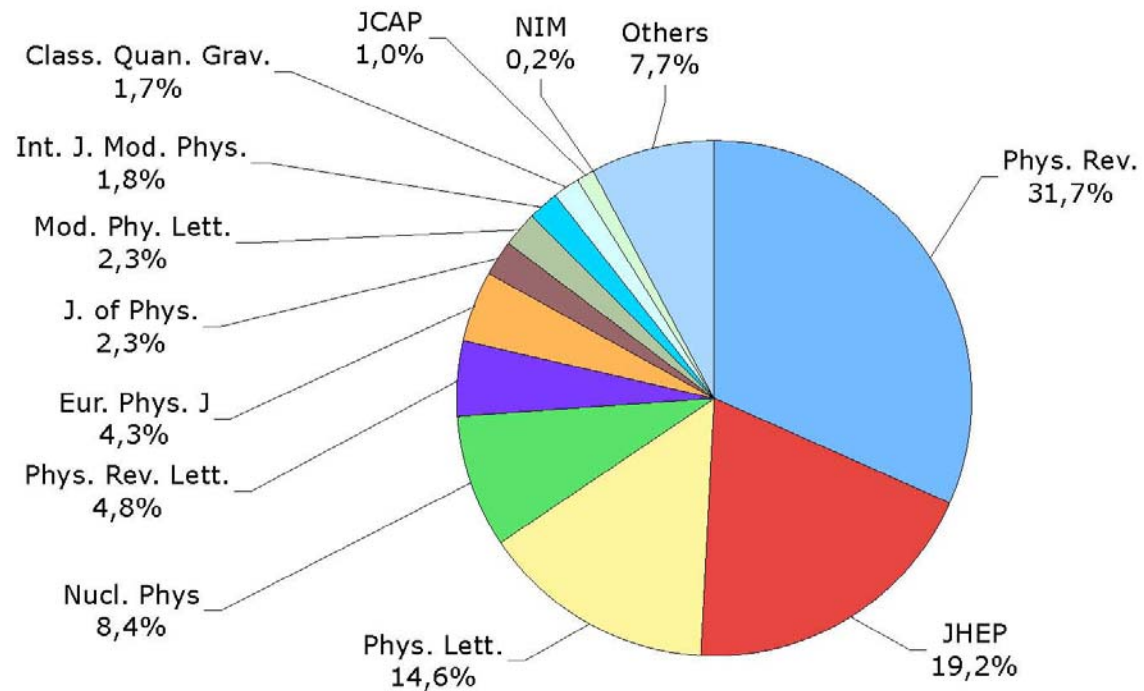


# Results of Study

## Distribution of HEP articles by publisher



## Distribution of HEP articles by journal



# Current Subscription Costs

University libraries in Germany/Austria/Switzerland spend 2.8 M€/year on 10 core journals (1.8 M€go to Elsevier)

DESY: 560.000€(total)      189.000€(Elsevier)  
          100.000€(core 10)      ~70.000€(Elsevier NIM,NPB, PLB)

NIM A+B:

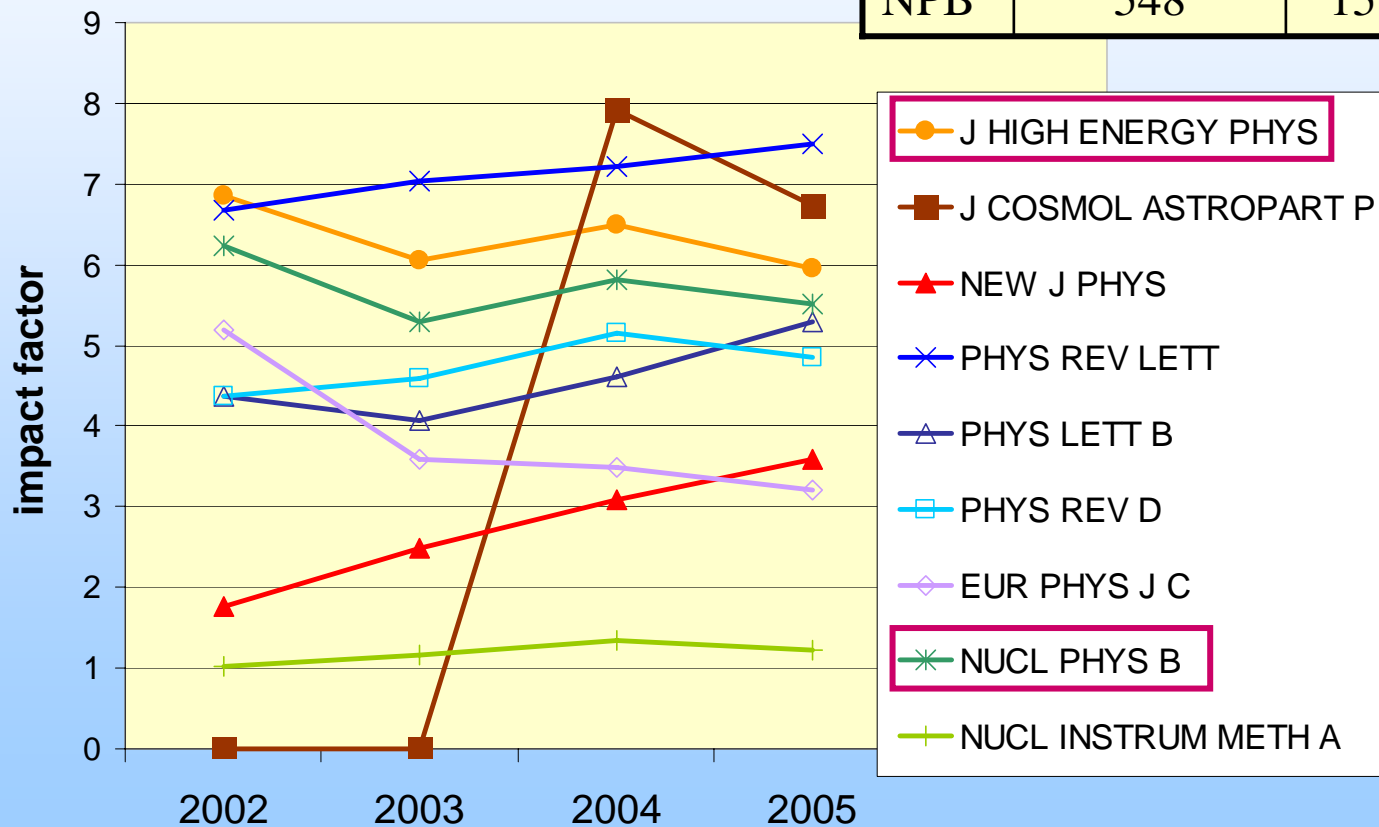
16.000 €/year x 300 subscribing institutes participating in LHC  
= 4.8 M€/year



# Impact Factors and Costs

Large variation between publication costs.  
No correlation to impact factor.

	Articles/year (2005)	Subscription costs (2007)	
		total	per article
JHEP	859	1.612€	1.88€
NPB	548	15.211€	27.76€



# Publishers move towards OA

Currently 2/3 of the sample has OA option (**Hybrid model**).

Single articles are made OA by paying a publication charge, subscription of the journal unchanged

⇒ **getting more expensive.**

Current publication charges:

Elsevier: 3000 €

Springer: 1000 € (before Nov 06: 3000 €)

APS: 975\$ (Phys.Rev.)

1300\$ (Phys.Rev.Lett.)



# Ready for OA Transition

## OA Journals:

APS:	PR ST-AB	1.650\$/article	(sponsored by US institutes, TRIUMF, CERN, DESY)
IoP:	New J Phys	870€/article	740€(DPG) + other discounts

## Interested in transition to full OA:

APS:	PRD
SISSA/IoP:	JHEP, JCAP, JINST
Springer:	EPJ C

## New OA Journals:

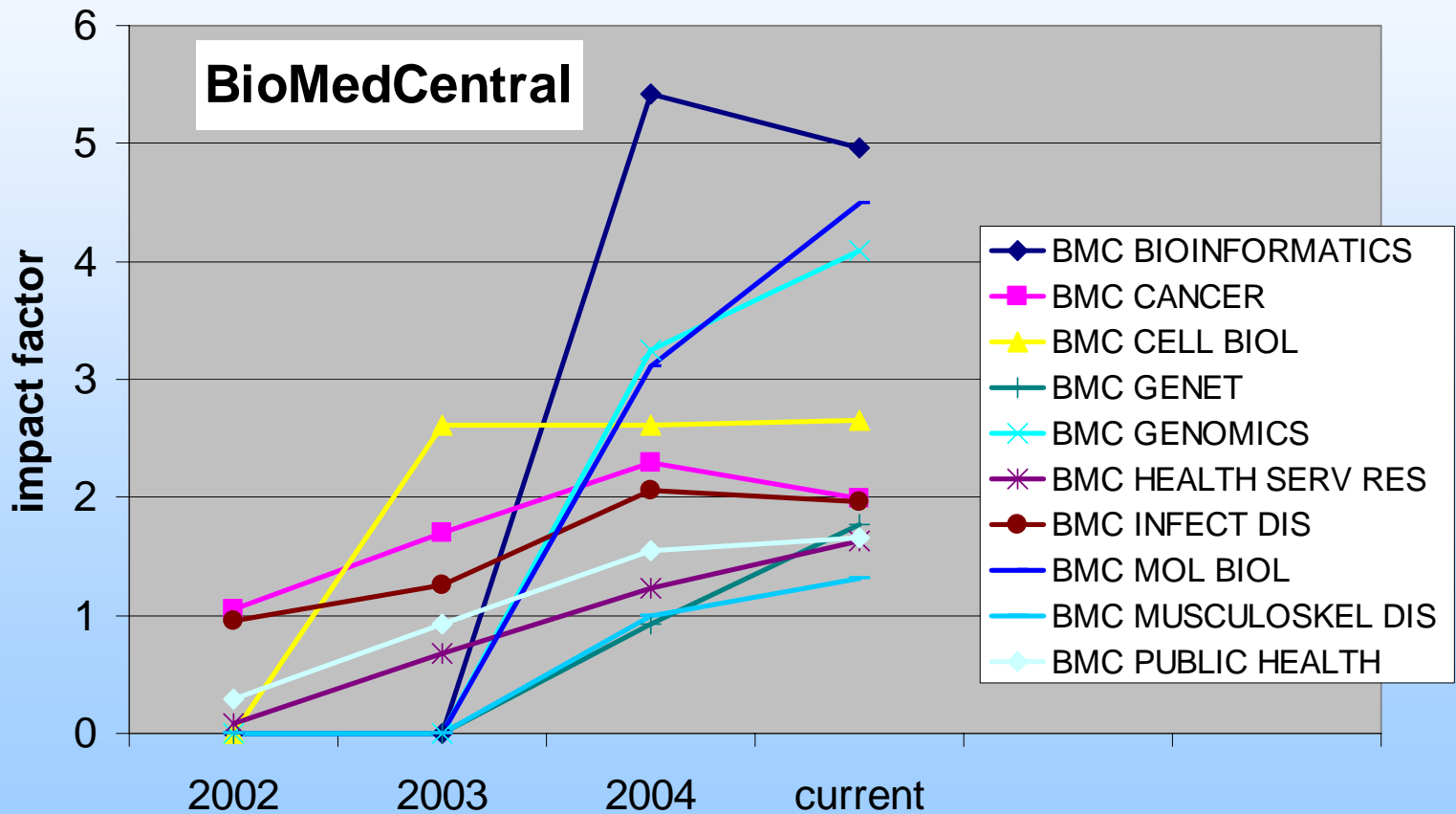
~ 10 new physics journals in 2007 by PhysMathCentral  
1 in HEP, 1 in photon science

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# Impact Factors BMC

several new journals by OA publisher BioMedCentral



# Atlantis Press Offer

- New OA publisher
- Former Elsevier employees
- Peer review
- Permanent archiving (Dutch National Library)
- Creative Commons: authors keep their copyright
- ISI and DOI available
- Creation of SCOAP owned journal?
- Cost estimate: 750 – 1500\$/article

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# SISSA / IOP Offer

Institutional membership fee paid annually by the institution.

- Articles from the institution are published OA and remain OA in future years. (are made available to the entire world)
- Readers at that institution get OA for all of the journal's content (can access the full-text of all of the journal's content regardless of the status of the paper)

Starting from Jan 2007

# published papers	1-3	4-10	11-20	21-40	Subscription only
JHEP	1645\$	3290\$	4900\$	4155\$	1645\$
JINST	900\$	2545\$	4155\$	7755\$	900\$





# Conferences

Peer review primary reason for journals.

Conference proceedings in journal series are not peer-reviewed.

⇒ Paying for a service that has not been delivered.

→ Dedicated OA conference series:

Proceedings of Science (IOP/SISSA)

Journal of Physics Conference Series (IOP)

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- Custom tailored service
- Low publication charge
- Long-term storage
- Set-up of conference web pages
- Preparation of templates
- Web-based software for authors and Chairman to upload, review, screen and publish contributions
- On request assistance in the call for papers
- Additional non-web publishing products
- All conference proposals assessed by PoS evaluating committee

## PoS Offer



# OA Financing

- Conversion of subscription budget into sponsoring and publication charge funds
- Funding agencies (DFG: national licence?)

## Overall OA cost estimate:

10.000 journal articles/year

- Optimistic: 1000€/article
- Realistic: 3000€/article



10-30M€

Start-up with ~3M€

## Fair share model:

- Split costs according to author affiliation
- Compensation for theoretical groups (low funds - high publication rate)
- Waive fees for poor countries



# Conclusion

OA is

- Necessary
- Feasible

Let's do it!

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