

R. Voss, CERN | Berlin 4 Open Access | Golm, Germany, March 29-31, 2006

Mandate

- Successful "Colloquium on Open Access Publishing in Particle Physics" held at CERN on 7-8 December 2005 (www.cern.ch/open-access)
- Set up Task Force to
 - study and develop sustainable business models for OA publishing for existing and new journals and publishers in particle physics, focused mainly on a sponsoring model;
 - make results available to the Colloquium participants before end of March 2006

Membership

Tripartite group: authors, publishers funding agencies:

- Members: Daniele Amati (SISSA) Martin Blume (APS) Enzo De Sanctis (INFN) **Gregor Herten (IUPAP C11)** Leif Jonsson (Lund) François Le Diberder (IN2P3) Claus Montonen (EPS) Jan Velterop (Springer) Rüdiger Voss (CERN/Chair)
- Expert: Frederick Friend (JISC)
- Observer: Yves Dumont (EU)
- Secretariat:
 Jens Vigen
 Joanne Yeomans
 Anne Gentil-Beccot
 Tullio Basaglia
 (all CERN Library)

The particle physics publications landscape

- The CERN Convention (1953) is an early Open Access manifesto:
 - "... the results of its (i.e. CERN's) experimental and theoretical work shall be published or otherwise made generally available."
- Particle physics has been an important promoter of the preprint culture
- Particle physicists were among the first to fully embrace the Open Archive movement (arXiv.org)
- > 90% of relevant papers appear in ~ 10 journals (excluding review journals)
- Peaceful coexistence, but journals increasingly relegated to version-of-record archives

The Task Force vision of OA

- The long-term goals:
 - Access on the Internet for all readers at any time and with no restrictions
 - Access for authors with no financial barriers
 - Authors retain copyright
 - Affordable for the community
- This cannot be achieved overnight: transition period and transition scenario needed

Key working hypotheses

- Focus on sponsoring to overcome practical & psychological hurdles of (traditional) publication charges
- Focus on "particle physics only" journals
- Focus on existing, established, high-profile journals to make model attractive to authors
 - ... but leave room for new players!
- Support > 1, better 3, 4 or more journals:
 - Stimulate competition
 - Give authors a choice
 - Maintain high peer review and editorial standards

Procedure

- Questionnaire sent to ~ 20 publishers for ~ 40 different titles, including all "core" HEP journals, some lesser ones, some "large bandwidth" journals
- Key questions:
 - Number of papers received/published p.a.
 - Cost per article published
 - Experimental/theory content
 - Origin of papers (by lab/country)
 - Are you ready for transition to OA ???
- Thanks to all who replied!

Disclaimer

- Some publishers have been very cooperative in providing financial details of their operations on condition that they remain confidential
- We will probably produce a report in two versions:
 - "full" list of recipients to be agreed by task force and with publishers
 - "light" for general distribution, will contain no (or anonymized?) financial data
- Cannot disclose some details here...

Overview of replies

- Positive replies from
 - APS for Phys. Rev. D, PRST-AB
 - SISSA/IOPP for JHEP, JCAP, JINST
 - Springer for Eur. Phys. J. C
 - ... plus some more
 - one candidate for new journal (BioMed Central)
- Some negative...
- Have not heard from some publishers but we have replies from the important ones

Initial conclusions

- With one notable exception, positive response from key publishers/journals in particle physics
- Sponsoring all "OA ready" journals would cost
 5 6 M€/year
- Minimum budget to start a full-size OA exercise: 3 M€/year
- May seem a lot, but... compare to traditional journal subscriptions integrated over particle physics institutes!

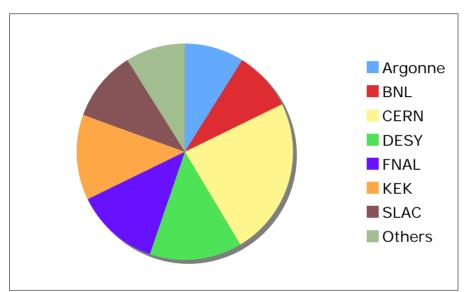
SCOAP3

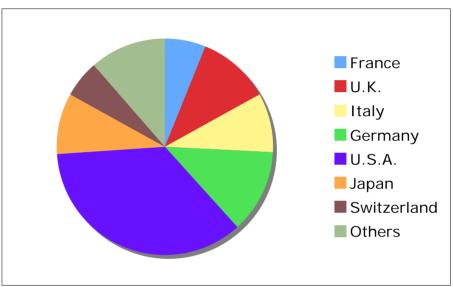
- Notwithstanding certain drawbacks, we consider sponsoring through a consortium the most promising and sustainable business model for particle physics
- Propose a "Sponsoring Consortium for Open Access Publishing in Particle Physics" (SCOAP3)
- Potential partners:
 - Funding agencies supporting particle physics
 - Major particle physics laboratories (CERN, Fermilab, DESY, SLAC, LNF [Frascati], KEK, IHEP [Beijing], ...)
 - Major author communities (big experimental collaborations)
 - Funding agencies supporting OA
 - Libraries

The long-term goal

- All relevant journals in the field convert to OA or disappear ("publish OA or perish")
- Provide room for new journals
- Co-fund "large bandwidth" journals
- SCOAP³ is supported by funding agencies based on a "fair share" principle
 - ~ 10 funding agencies provide ~ 90% of global funding for particle physics research
- The longer-term option: revert to traditional publication charges?
 - Should be cost-neutral for funding agencies
 - Too early to make a recommendation now

Origin of published papers





Experimental papers by lab

Theoretical papers by country

- Theoretical papers are ~ 80% of the total!
- Figures preliminary, use with some care

Transition, part 1: funders

- We tentatively foresee a 5 y transition period
- At the end, funding agencies will be fully responsible
- Transition scenario:
 - "Big labs" will have to take a lead, financially (hopefully supported by other sources) and politically, but cannot carry the full load forever
 - Work out details of the "fair share" scenario
 - Allow time for funding agencies to adapt (convert journal subscription budgets to OA sponsoring)
 - Allow time for authors to adapt
 - Allow time for more publishers to join

Transition, part 2: publishers

- Depending on amount and reliability of funding, not all interested publishers may be willing or able to convert their particle physics journals to full OA on short notice.
- Possible "delayed" transition models:
 - Article-by-article sponsoring (Springer "Open Choice" example)
 - Convert to OA parts of journal directly concerned with particle physics
 - Make journal OA-available after embargo period
- Conditions to be negotiated journal by journal. Journals adopting a delayed transition should commit to full OA as the long-term goal, and offer a gradual decrease of subscription price.

Summary

- A significant fraction of key particle physics journals is ready for a rapid transition to Open Access under a consortium-funded sponsoring model
- These journals cover ~ 50% of the original research articles (excluding instrumentation papers)
- We have identified initial budget requirements
- This is a first step: we have a daunting task in front of us to do the fundraising, and to sort out the nitty-gritty details
- The LHC start in 2007 is a unique opportunity!

