



Sponsoring Consortium for
Open Access Publishing in Particle Physics

SCOAP³: Sustaining Open Access to HEP Research

October 26, 2022

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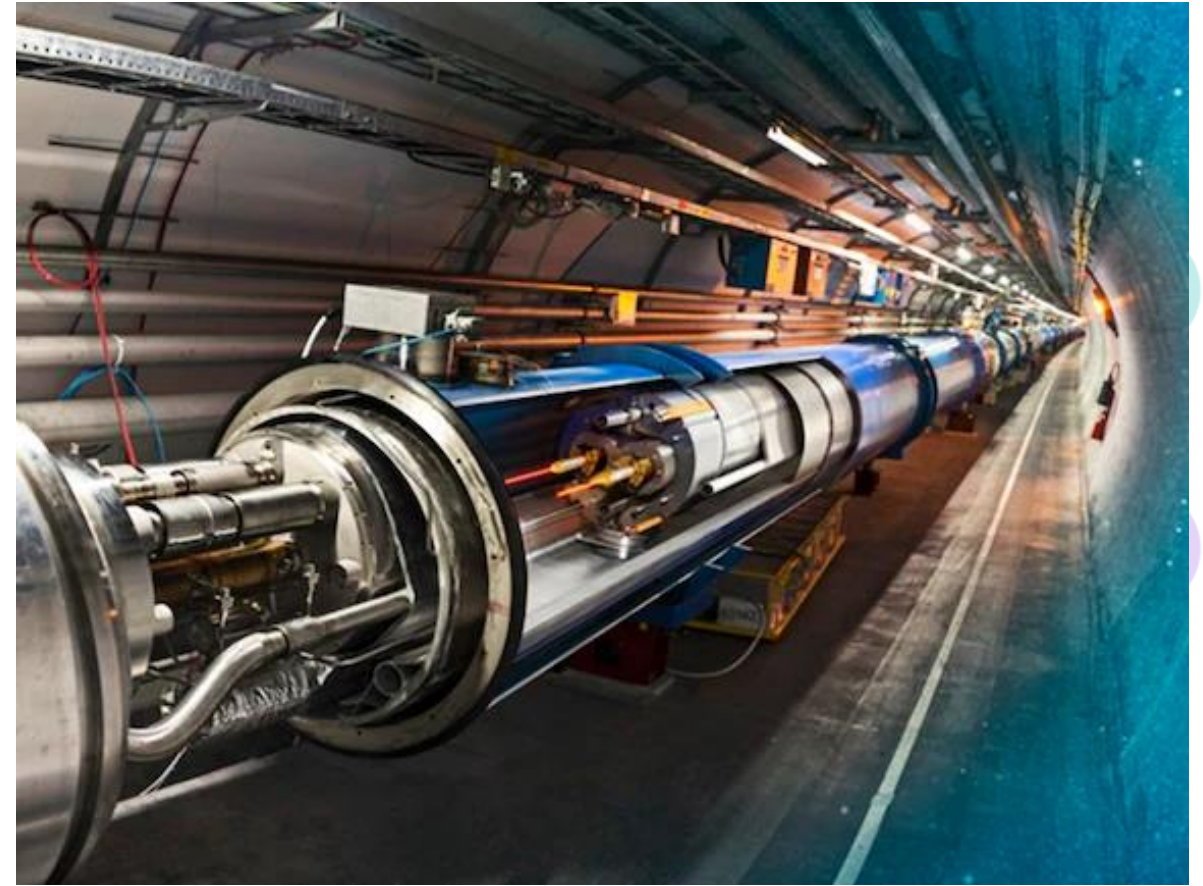
Head of Open Science

European Organization for Nuclear Research (CERN)



CERN's Mission

is to provide a unique range of particle accelerator facilities that enable research at the forefront of human knowledge, perform world-class research in fundamental physics, unite people from all over the world to push the frontiers of science and technology, **for the benefit of all**



Four pillars underpin CERN's mission



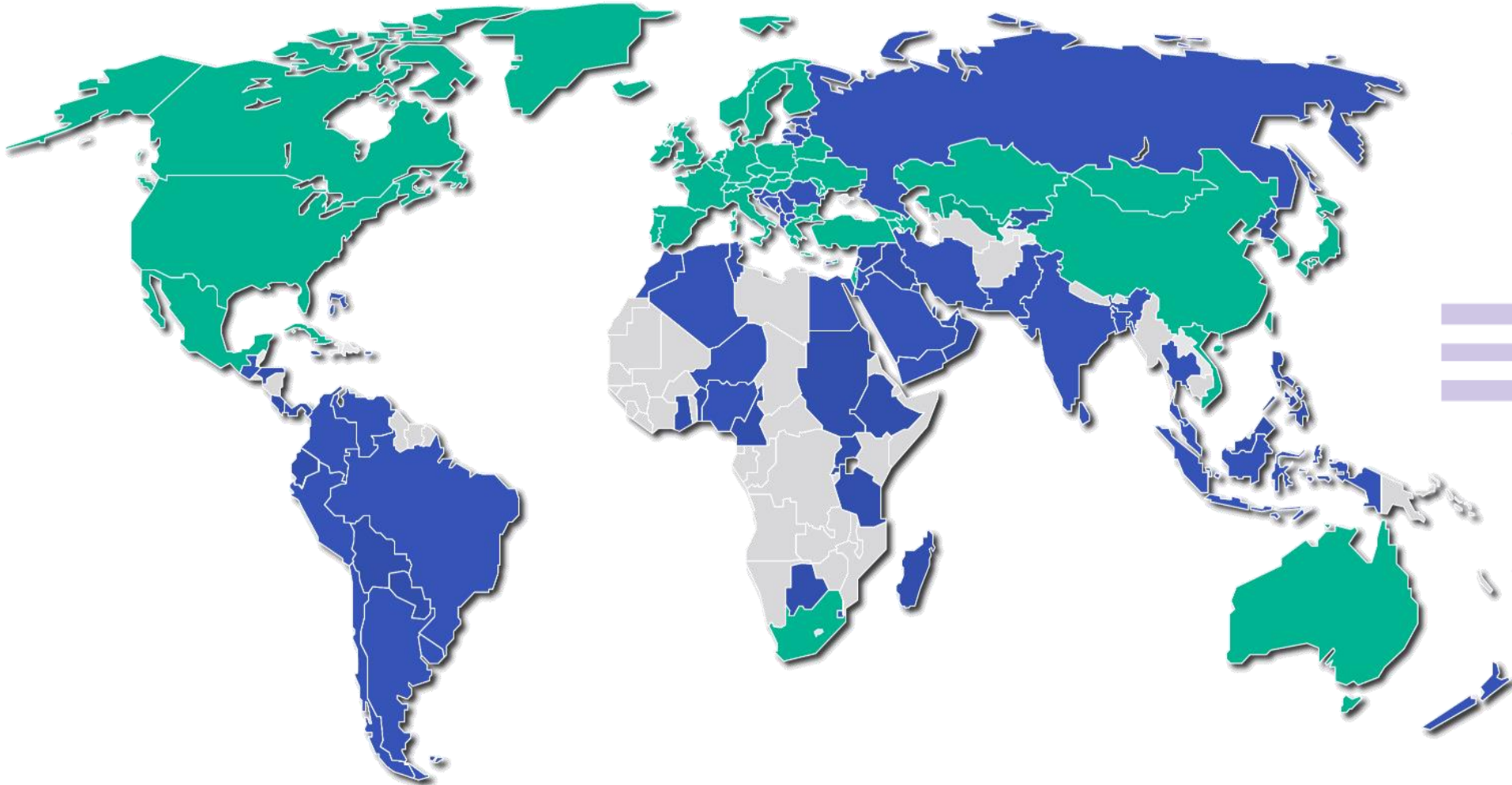
What is SCOAP³?

- * The Sponsoring Consortium for Open Access Publishing in Particle Physics
- * Mission:
 - SCOAP³ enables Open Access publishing in the field of high-energy physics, helping to remove financial and administrative barriers to science
- * Global collaboration launched in 2014
- * Partnership consisting of over 3,000 libraries, research organizations and IGOs from 45 countries (and growing)
- * 7000+ articles published OA each year
- * 11 leading journals in the discipline from 7 publishers
- * Currently in 3rd Phase (2020-2024)

A Global Collaboration

Partners in the SCOAP³ collaboration

Countries/regions/territories with at least one SCOAP³ author

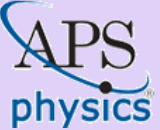









Collective Governance Model

A global consortium with participatory governance operated by CERN



SCOAP³ Results

Publisher	Journal	Articles
 from 2018	Physical Review C	409
	Physical Review D	10286
	Physical Review Letters	1316
	Nuclear Physics B	2753
	Physics Letters B	7405
	Advances in High Energy Physics	1140
 until 2016 until 2016	Chinese Physics C	609
	New Journal of Physics	25
	J. Cosm. and Astroparticle Physics	654
	Acta Physica Polonica B	144
 	Progress of Theor. and Exp. Physics	751
	European Physical Journal C	8107
	J. High Energy Physics	20003

Total: 53,602

SCOAP³ in numbers

- More than 53,602 articles converted to OA
- Covers 90% of all HEP articles
- Mentioned as a great example by the EU commission
- In line with Plan S and OA2020
- Average APCs in EUR:
 - Wellcome/COAF 2,659
 - UKRI 2,271
 - Open APC 1,986

**Average SCOAP³
1,162 EUR**

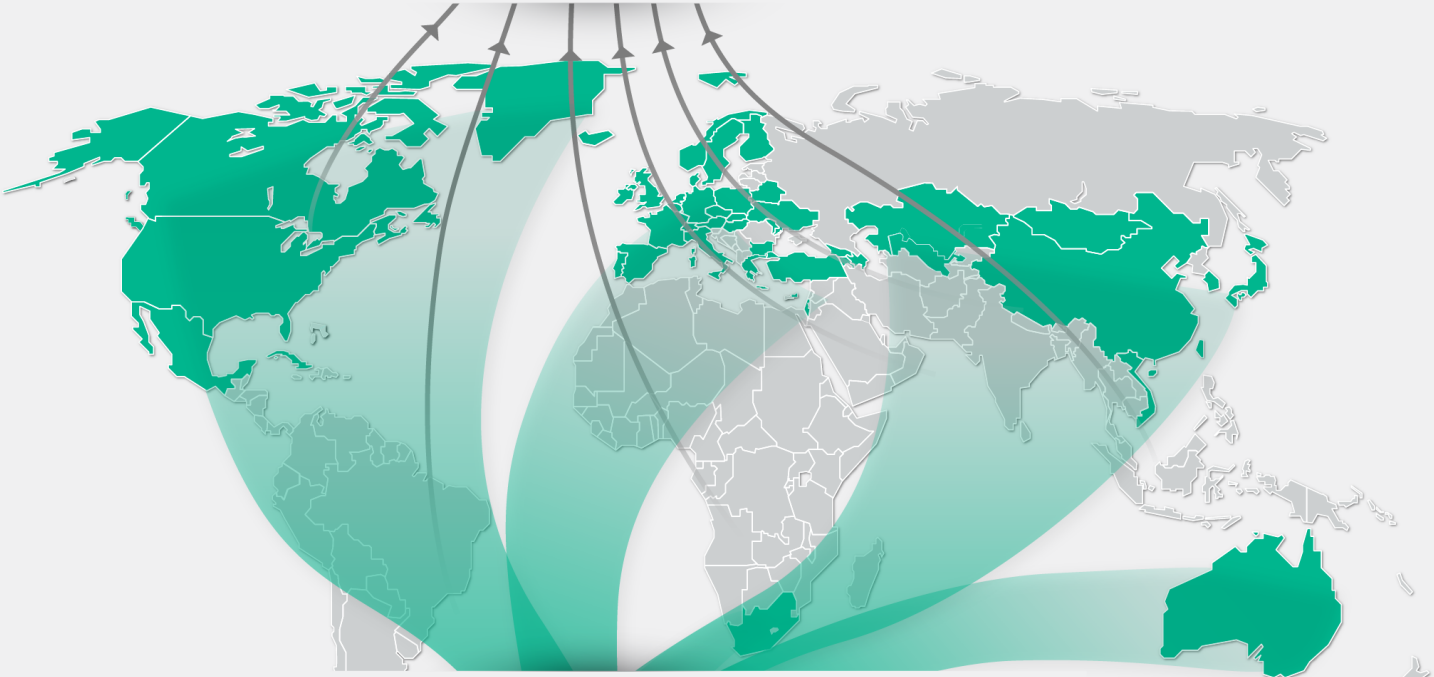
The SCOAP³ Model: How it Works





 No publication costs for authors worldwide

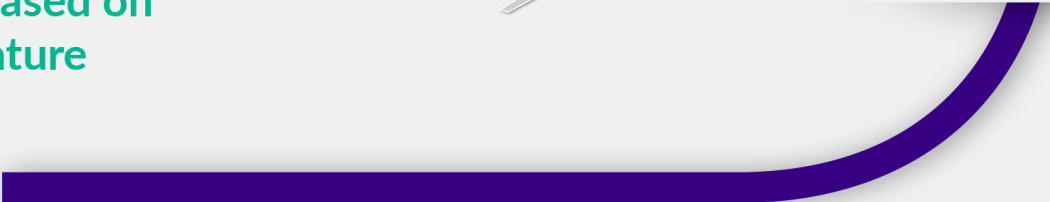


Research articles are published fully Open Access with CC-BY licenses



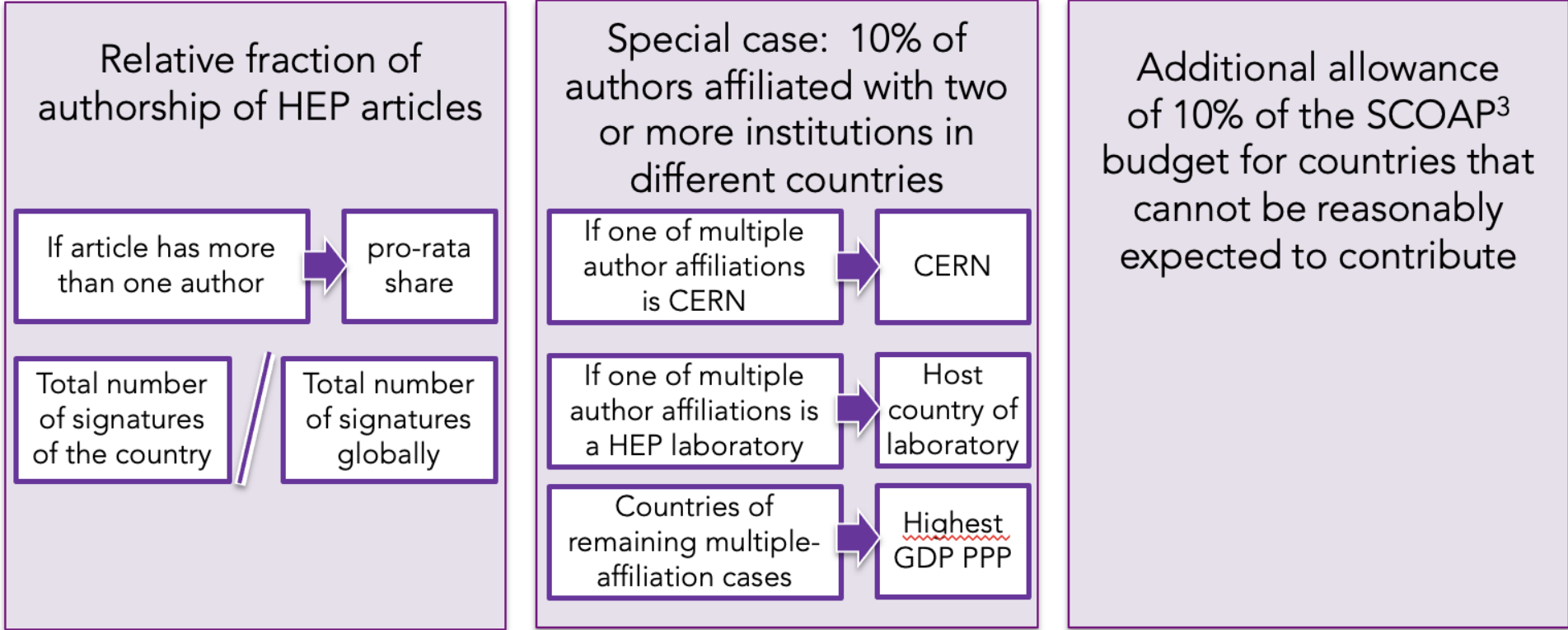
 SCOAP³ centrally pays for Open Access publishing services

 Partners contribute to SCOAP³ based on their share of the published literature



Calculating Country Shares

Principles



E.g.: Y. Jing (CHN), L. Pavarotti (IT, DE), L. Bernstein (USA, CERN) → 1/3 CHN; 1/3 DE; 1/3 CERN

SCOAP³: Who Benefits



AUTHORS

- **Free to publish** in leading journals in the discipline
- **Retain copyright** of own work
- **Substantially** increased visibility



READERS

- **Immediate full access** to peer-reviewed publications through known channels
- **Easy** text and data mining



LIBRARIES/PARTNERS

- **Support** of open access according to their research output
- **Easy harvesting** of articles to institutional repositories
- **Low** administration cost
- **Central** negotiation and article compliance check



PUBLISHERS

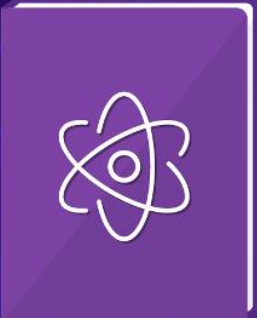
- **Consistent** compliance criteria
- Contractual **stability**
- **Low** administration cost (after initial set-up)
- **Increased** usage of content

SCOAP³ for Books



SCOAP³ for Books

from the Sponsoring Consortium for Open Access Publishing in Particle Physics



SCOAP³ for Books is an initiative to transition key monographs and textbooks relevant to high-energy physics to Open Access

Coverage includes:

- Theoretical and experimental particle physics
- Instrumentation (detectors, accelerators, etc.)
- Cosmology, mathematics and history of physics

How does it work?



SCOAP³ collection on OAPEN.org



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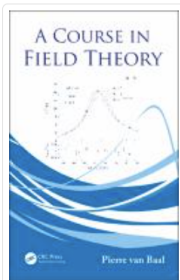
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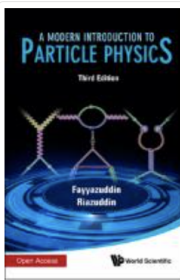
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A Course in Field Theory

van Baal, Pierre (2014)

Extensively classroom-tested, A Course in Field Theory provides material for an introductory course for advanced undergraduate and graduate students in physics. Based on the author's course that he has been teaching for ...



A Modern Introduction To Particle Physics (3rd Edition)

Fayyazuddin, ; Riazuddin, . (2011)

The book provides a comprehensive account of particle physics linking various aspects of particle physics in a coherent manner. This self-contained book not only cover basic concepts and recent developments but also overlaps ...

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What is next for SCOAP³?

- * Currently designing Phase 4 (2024 and beyond)
 - Open now the default in HEP
- * Regular implementation of SCOAP³ for Books program

Thank You! Questions?

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