



Open Science for Fair and Sustainable Access to Knowledge

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In collaboration with R.Barbera, M.Maggi, D.Menasce, L.Patrizii (INFN OA working group)

SISSA, Trieste 2022.05.02
<https://www.sissa.it/announcement/open-science-seminarworkshop-may-2nd-and-3rd-2022>

DOI: 10.15161/oar.it/75564



Open Science in the National Institute for Nuclear Physics of Italy (INFN)

S.Bianco R.Barbera M.Maggi

D.Menasce L.Patrizii

M. Pallavicini (*ex-officio, Member of INFN Executive Board*)

INFN Open Access Working Group

P.Lubrano

INFN Research Assessment Working Group

Outline

- Open Science 101 for scientists
- Open Science and Research Evaluation
- Open Science and (Italian) copyright law
- Open Science Do's and Dont's for scientists





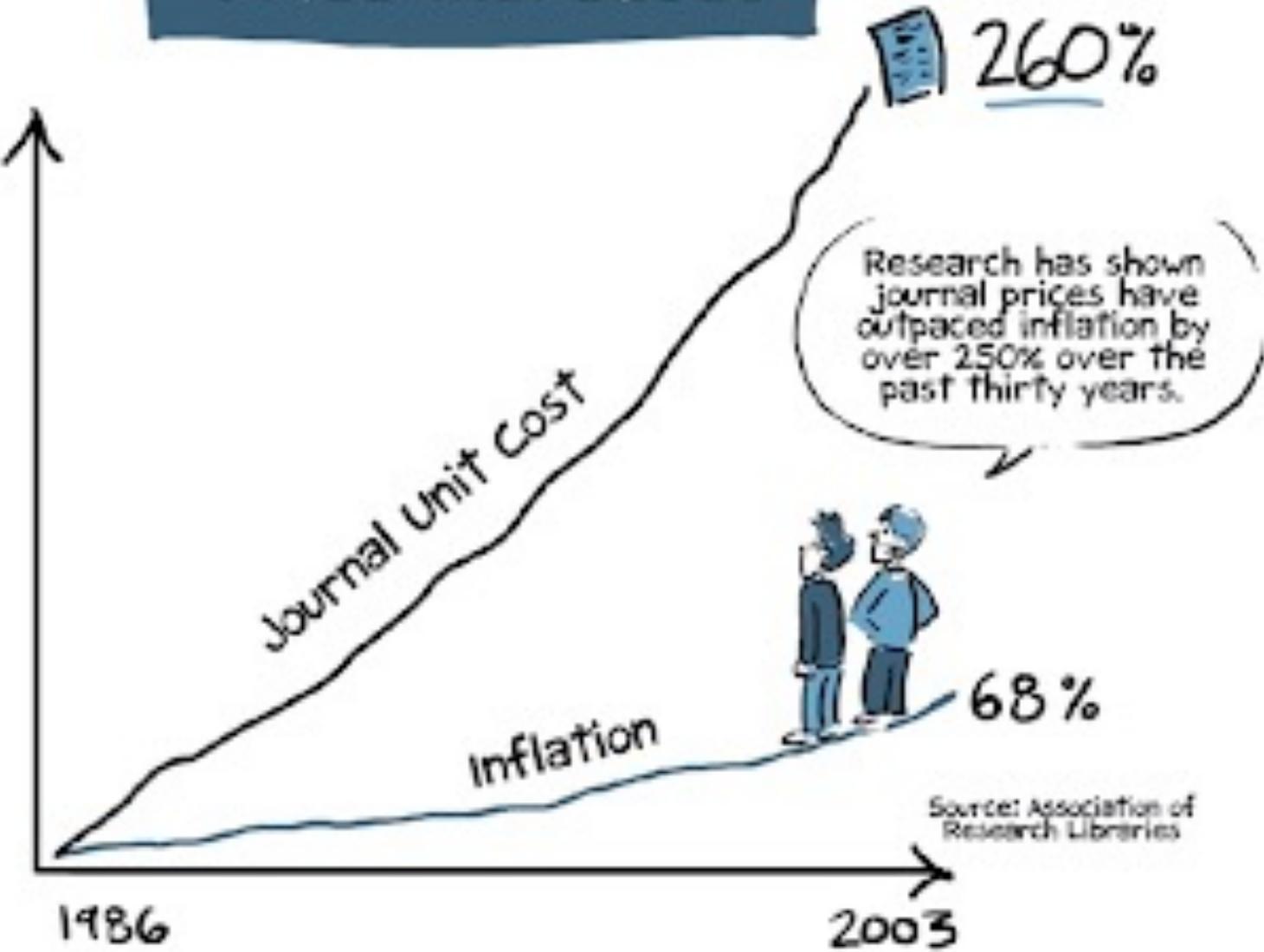
- Open Science 101 for scientists
- Open Science and Research Evaluation
- Open Science and (Italian) copyright law
- Open Science Do's and Dont's for scientists



Open Access (OA) → Open Science (OS)

- (*circa* 2001) All results from publicly funded research must be immediately and freely available to the taxpayer that has funded it.
- (*circa* 2010) Open Data, Open Source, Citizen's Science, *etc.*

Price Increases



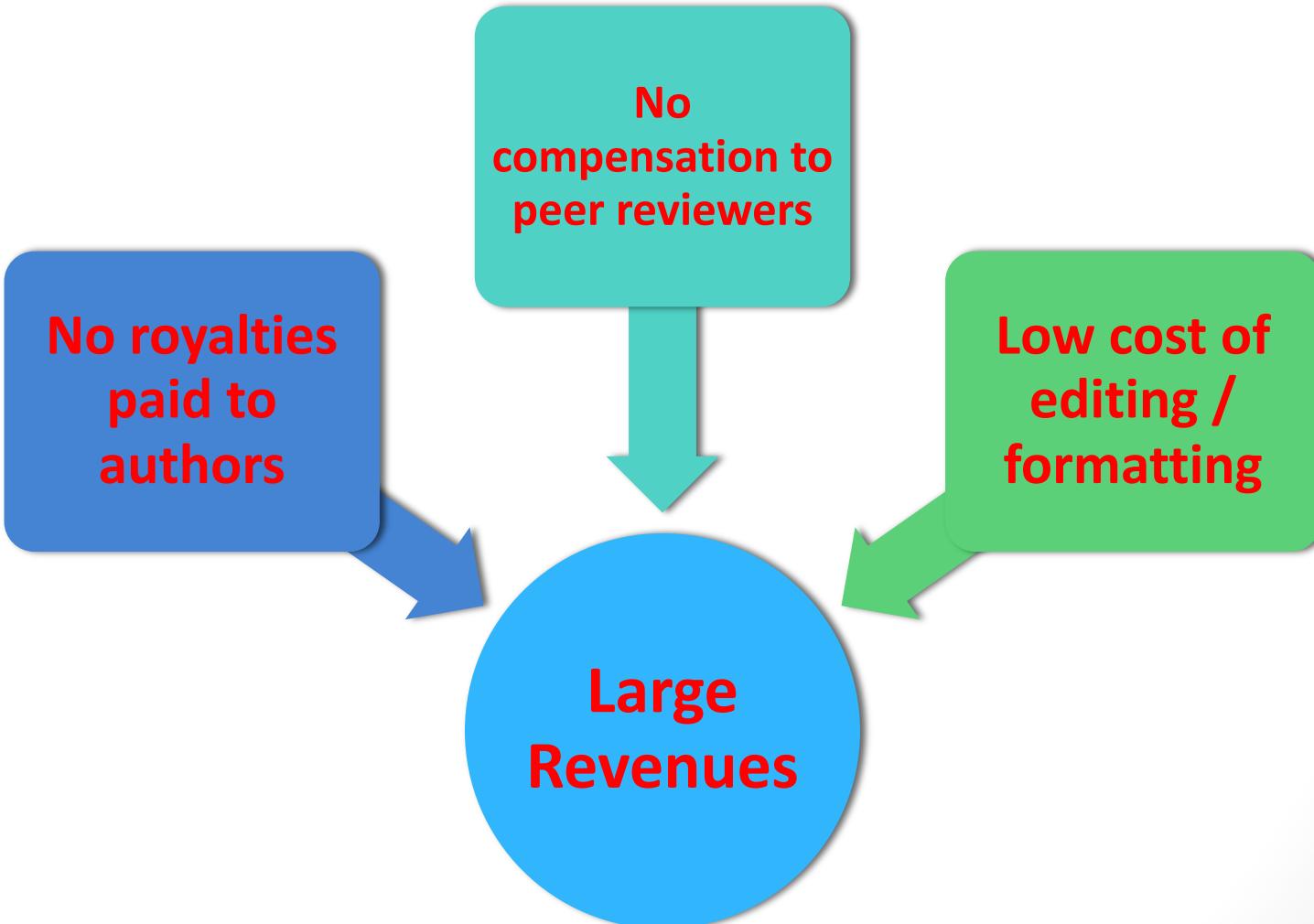
Subscription Market: an oligopoly



Decrypting the Big Deal landscape Follow-up of the 2019 EUA Big Deals Survey Report
<https://eua.eu/resources/publications/889;decrypting-the-big-deal-landscape.html>

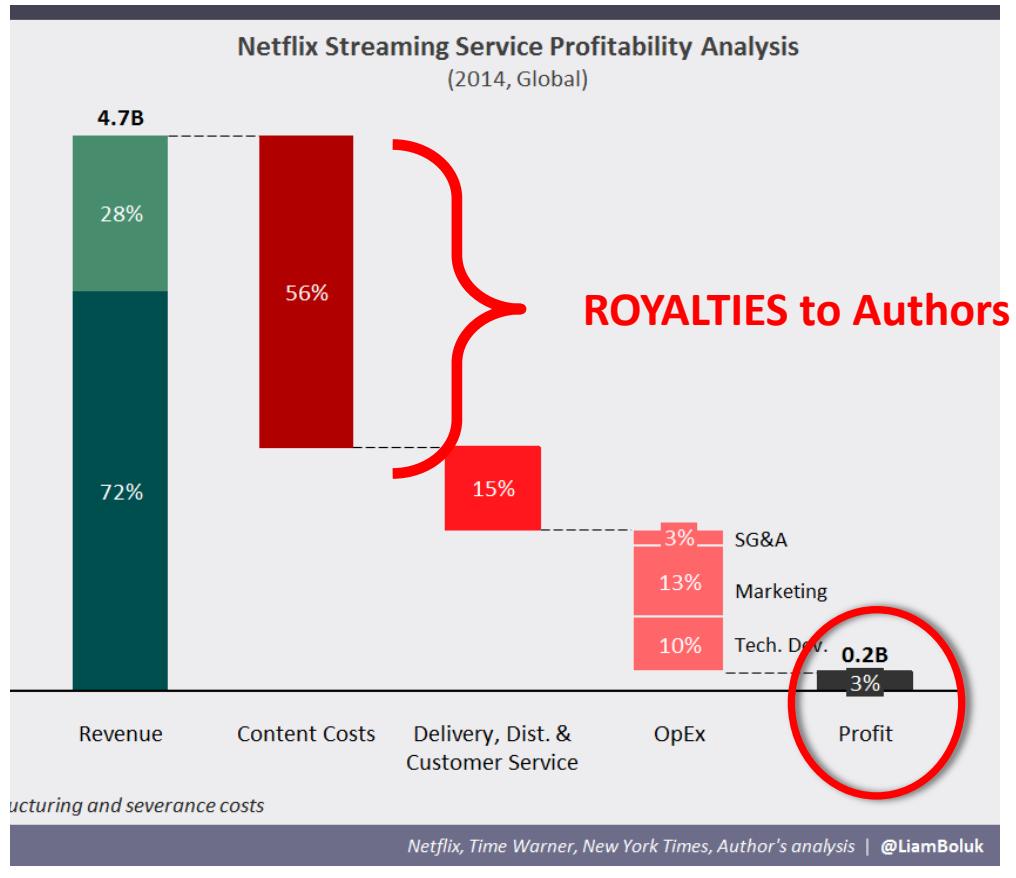
- Each article is a micro-monopoly
 - → rigid market
- Impact Factor used in research assessment
 - → Tendency to prefer high-IF journals

Top 5 commercial publishers



How much do publishers make ?

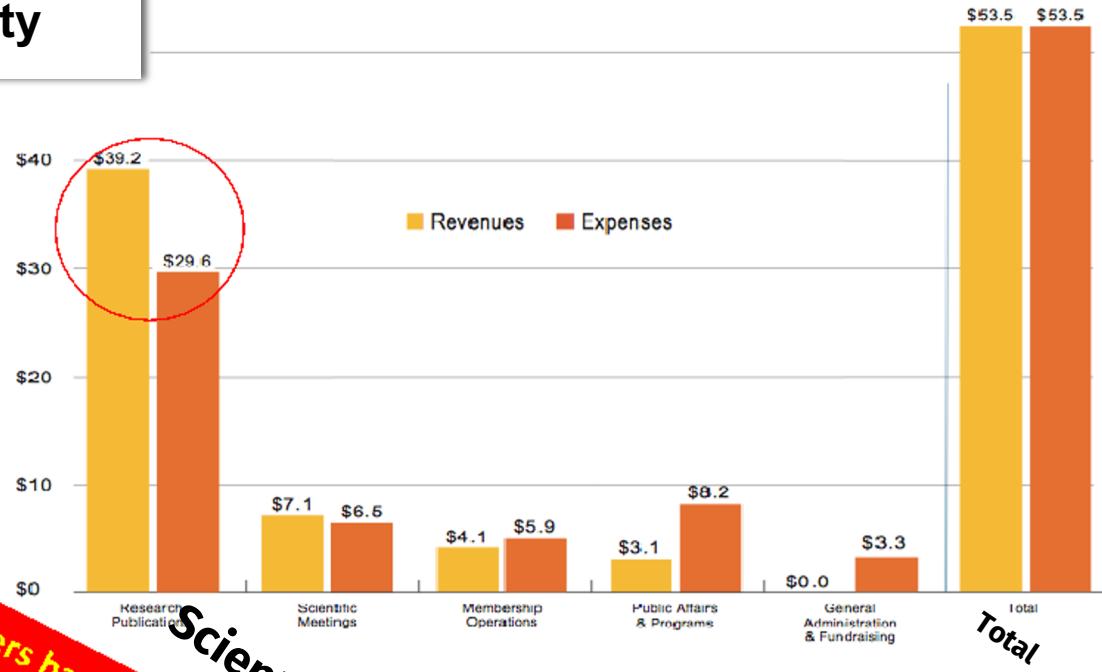
let's compare to music industry



How much do publishers make ?

let's compare to music industry

American Physical Society



Scientific Publishers have a huge ROI
NO copyright royalties paid to authors
NO compensation to peer reviewers

Scientific publications

Courtesy of A.Kohls and S.Mele CERN



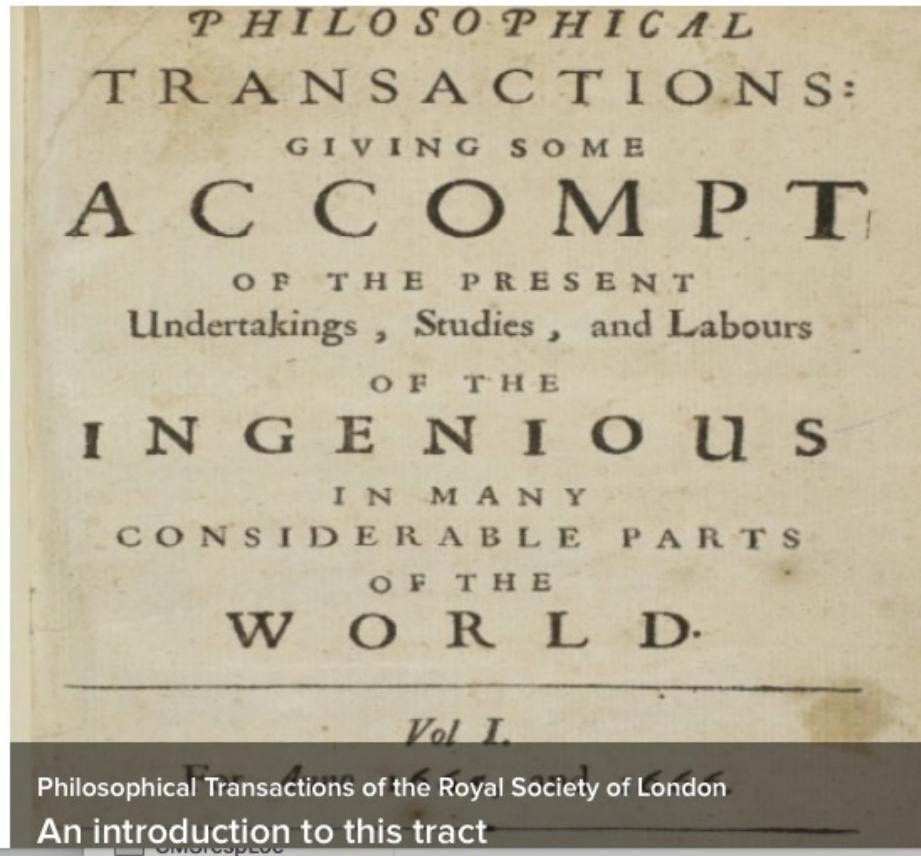
S.Bianco et al., Open Science for Fair and Sustainable Access to Knowledge - SISSA Trieste 2022.05.02 DOI: 10.15161/oar.it/75564





ABRAHAMI ELZEVIR DI LEIDA, PAESI BASSI

Featured Articles



An introduction to this tract

**Eclipsis Solis anno 1675, die
23 Junni mane ft.n.observ.
Gedani à Job. Hevelio**

Johannes Hevelius

**An abstract of a letter from
Mr. Anthony Leewenhoek
of Delft to Mr. R. H.
concerning the
appearances of several
woods, and their vessels.**

Antoni Van Leeuwenhoek

**XXIII. Farther observations
on the feet of animals**

the Frascati institutional repository
contains preprints dating back **1954**
openaccessrepository.it

LNF - 54/15
26. 3. 1954.

G. Salvini: PROPOSAL OF A SYNCHROTRON WITH A DOUBLE
VACUUM CHAMBER.

(v. 54/47)



1970



(16)

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10.15161/oar.it/75564





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Knowledge - SISSA Trieste 2022.05.02 DOI:

10.15161/oar.it/75564

(17)

ISTITUTO NAZIONALE DI FISICA NUCLEARE
Laboratori Nazionali di Frascati

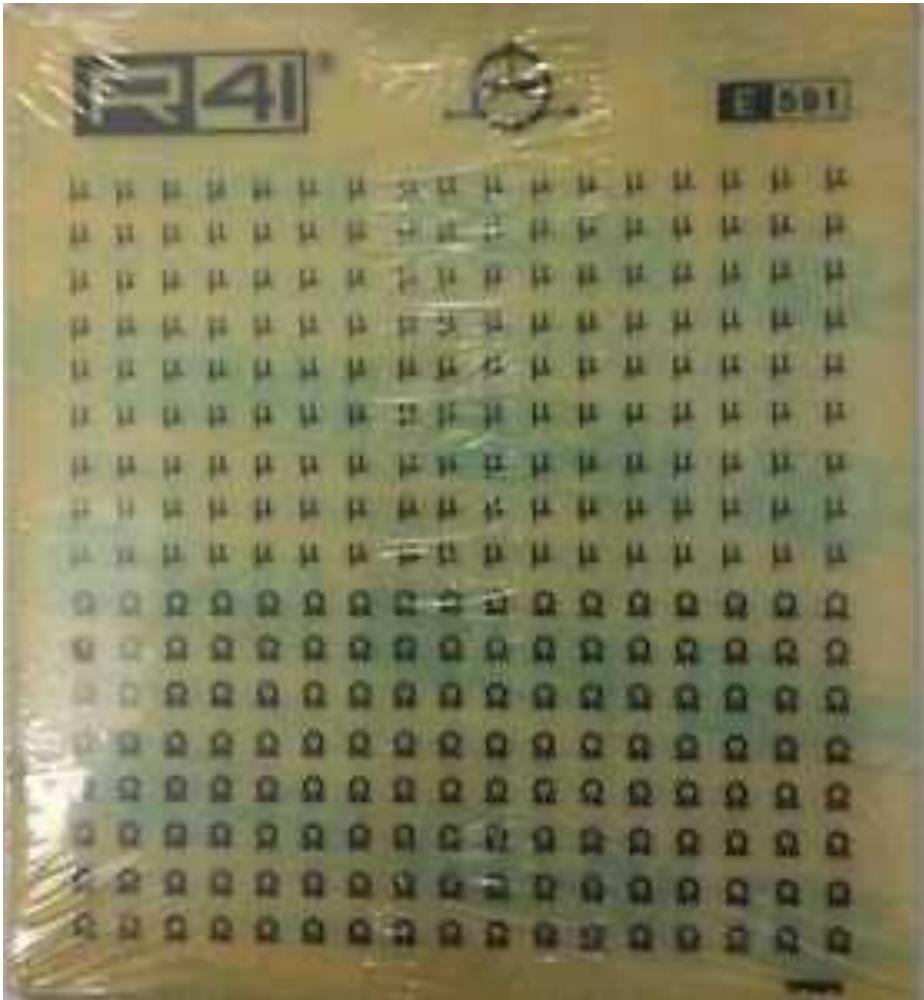
LNF-83/93

E. Iarocci: PLASTIC STREAMER TUBES AND THEIR
APPLICATIONS IN HIGH ENERGY PHYSICS

Estratto da:
Nuclear Instr. and Meth. 217, 30 (1983)

Servizio Documentazione
dei Laboratori Nazionali di Frascati
Ces. Postale 13 - Frascati (Rome)

...e i trasferibili



(18)

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Knowledge - SISSA Trieste 2022.05.02 DOI:
10.15161/oar.it/75564



< 1980 i grafici con il normografo



(19)

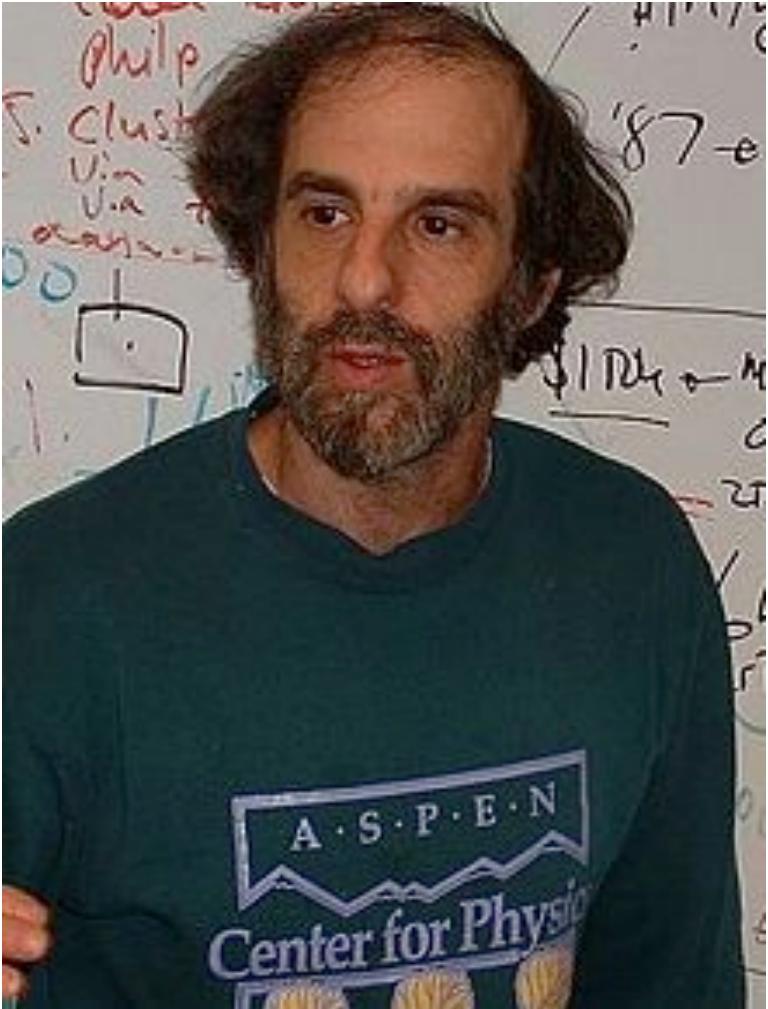
S.Bianco et al., Open Science for Fair and Sustainable Access to
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1980



1991 Paul Ginsparg and arXiv

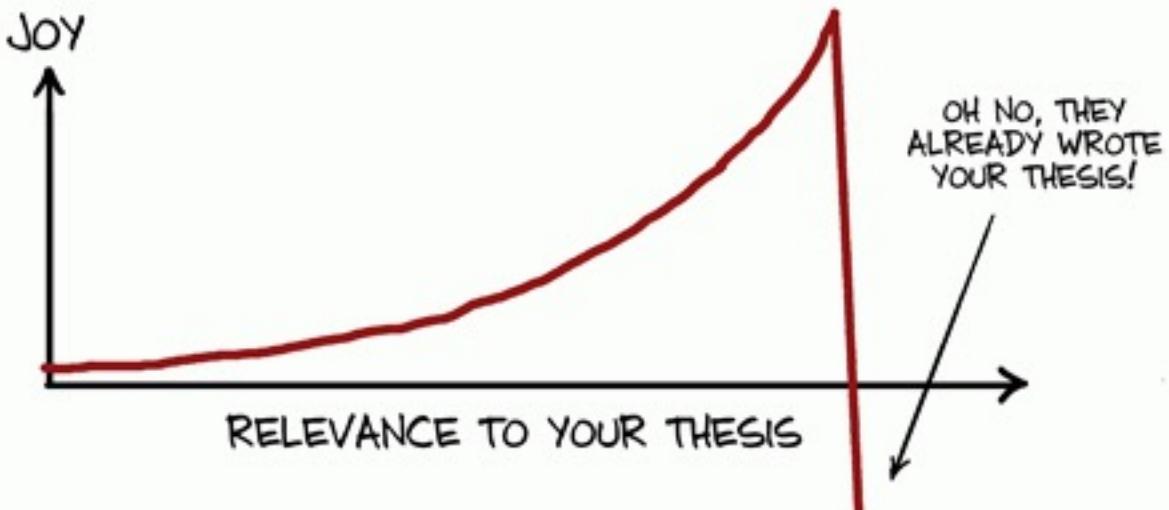


August 6th, 1991 – birth of www @ CERN



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FINDING A NEW ARTICLE



WWW.PHDCOMICS.COM

1997 SISSA Trieste (Amati & Bonora)
establish JHEP → now operated by
Springer

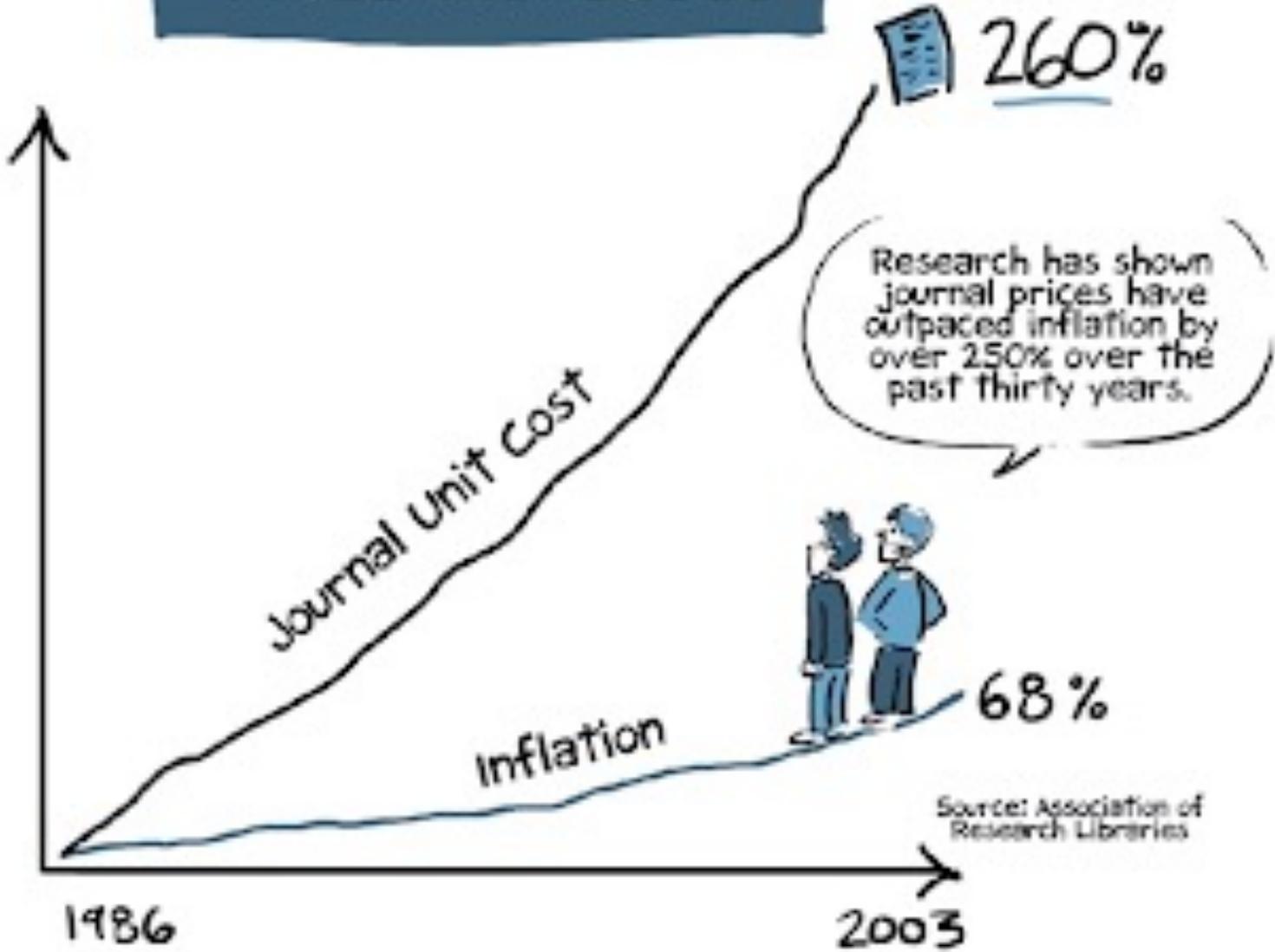


S.Bianco et al., Open Science for Fair and Sustainable
Access to Knowledge - SISSA Trieste 2022.05.02 DOI:
[10.15161/oar.it/75564](https://doi.org/10.15161/oar.it/75564)

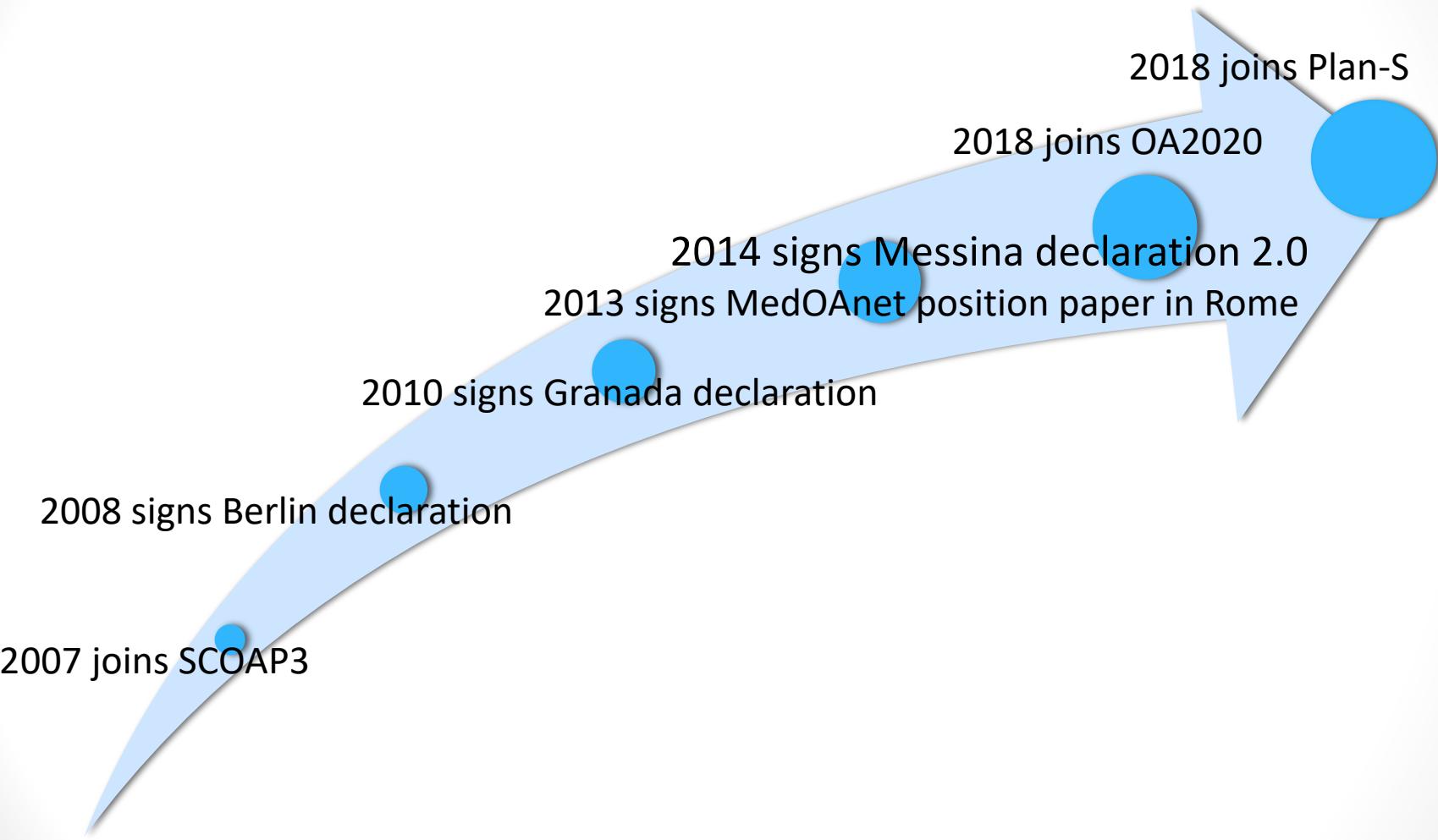
Price Increases



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Infn e Open Access



(2018) Germany, Sweden, Hungary, Univ. California,
ICTP and SISSA cancel contracts with Elsevier

Swedish Rectors' Conference

- **Spring 2018:**
- Discussion about the negotiations with Elsevier
- A choice of approach
- Unanimously decision to advise the Bibsam steering committee to cancel the agreement with Elsevier



ICTP, SISSA Trieste

no Elsevier deal since 2018



S.Bianco et al., Open Science for Fair and Sustainable Access to Knowledge - SISSA Trieste 2022.05.02 DOI: 10.15161/oar.it/75564

(28)



Glossary – Roads to OA

Green Open Access

Publish on a subscription journal -
Deposit the **AAM*** in OA repository

"Subscription" MODEL

Gold Open Access

Publish on OA journal after paying **Article Processing Cost (APC)**

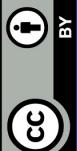
"Article Processing Costs" MODEL

Hybrid Open Access

Publish OA on a subscription journal and
pay APC (*double dipping*)

Diamond Open Access

Publish on OA journal without APC
payment, publication supported collectively
or institutionally.



Author's Accepted Manuscript

[physics.ins-det] 26 Dec 2010

A new approach in modeling the behavior of RPC detectors

L. Benussi^a, S. Bianco^a, S. Colafranceschi^{a,b,c,1}, F.L. Fabri^a, M. Giardoni^a, L. Passamonti^a,

D. Piccolo^a, D. Pierluigi^a, A. Russo^a, G. Saviano^{a,b}, S. Buontempo^d, A. Cimmino^{d,e},

M. de Gruttola^{d,e}, F. Fabozzi^d, A.O.M. Iorio^{d,e}, L. Lista^d, P. Paolone^d,

D. Pagano^f, S.P. Ratti^f, A. Vicini^f, P. Vitulo^f, C. Viviani^f, A. Sha

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^bSapienza Università degli Studi di Roma "La Sapienza", Piazzale A.

^cCERN CH-1211 Genève 23 P-01631 Switzerland

^dINFN Sezione di Napoli, Complesso Universitario di Monte Sant'Angelo, edif

^eUniversità di Napoli Federico II, Complesso Universitario di Monte Sant'Angelo,

^fINFN Sezione di Pavia and Università degli studi di Pavia, Via Bassi 6,

Abstract

The behavior of RPC detectors is highly sensitive to environmental variables. A novel approach is presented to model the behavior of RPC detectors in a variety of experimental conditions. The algorithm, based on Artificial Neural Networks, has been developed and tested on the CMS RPC gas gain monitoring system during commissioning.

<http://arxiv.org/abs/1012.5508v1>

08v

Key words: RPC, CMS, Neural Network, muon detectors HEP

Same identical content

Only the VoR contains the publisher's quality stamp



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Nuclear Instruments and Methods in Physics Research A

journal homepage: www.elsevier.com/locate/nima



A new approach in modeling the behavior of RPC detectors

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A.O.M. Iorio^d, L. Lista^d, P. Paolone^d, F. Fabozzi^d, G. Brusa^d, D. Pagano^f, S.P. Ratti^f, A. Vicini^f, P. Vitulo^f,
C. Viviani^f, A. Sharma^a, A. Bhattacharyya^a

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Keywords

RPC
CMS
Neural network
Muon detectors
HEP

ABSTRACT

The behavior of RPC detectors is highly sensitive to environmental variables. A novel approach is presented to model the behavior of RPC detectors in a variety of experimental conditions. The algorithm, based on Artificial Neural Networks, has been developed and tested on the CMS RPC gas gain monitoring system during commissioning.

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1. Introduction

Resistive Plate Chamber (RPC) detectors [1] are widely used in HEP experiments for muon detection and triggering at high-energy, high-luminosity hadron colliders [2,3], in astroparticle physics experiments for the detection of extended air showers [4], atmospheric neutrino detection [5] and other applications [6]. At the LHC, the main system of the CMS experiment [6] relies on drift tubes, cathode strip chambers and RPCs [7].

In this paper a new approach is proposed to model the behavior of the RPC detector via a multivariate statistic. Full details on the detector and its operation can be found in Ref. [8]. The proposed algorithm, based on Artificial Neural Networks (ANN), allows one to predict the behavior of a set of variables, once

the present stage takes place. To provide a training to the ANN, atmospheric pressure and relative humidity [8] have been considered. Further studies including radiation dose are underway and will be the subject of a forthcoming paper. In a preliminary phase we trained a neural network with just one variable and we found that the results were not good. So, the first step improved after adding more variables into the network. The agreement found between data and prediction has to be considered a pessimistic evaluation of the validity of the algorithms, since it also depends on the presence of unknown variables not considered for training.

The data for this study have been collected utilizing the gas gain monitor (GGM) system [9–11] of the CMS RPC monitor detector during the commissioning with cosmic rays in the test area at CERN.

The GGM system is composed of the same type of RPC used in the CMS detector (2 mm-thick plastic gaps) but of smaller size (50 × 50 cm²). Two gas gaps are used for each trigger. One gap is provided by four out of 12 gaps of the stack, while the remaining eight gaps are used to monitor the working point by means of a cosmic ray telescope based on RPC detectors.

In this study, the GGM system is operated in open loop mode with a bias voltage of 5.5 kV. Six monitoring gaps are used. Six out of eight monitoring gaps were used, two out of eight monitoring gaps failed during the study and were therefore excluded from the analysis. The monitoring is performed by measuring the charge collection of each gap. In total, six gaps are operated at different high voltages, fixed for each chamber, in order to monitor the total range of operating modes of the gaps (Table 1). The operation mode of the RPC changes as a function of the voltage applied, in particular the chamber will change from avalanche mode to streamer mode when increasing HV.

2. The Artificial Neural Network simulation code

An Artificial Neural Network (ANN) is an information processing paradigm that is inspired by the way biological nervous systems, such as the brain, process information [12]. The most

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doi:10.1016/j.nima.2010.09.172

Version of Record

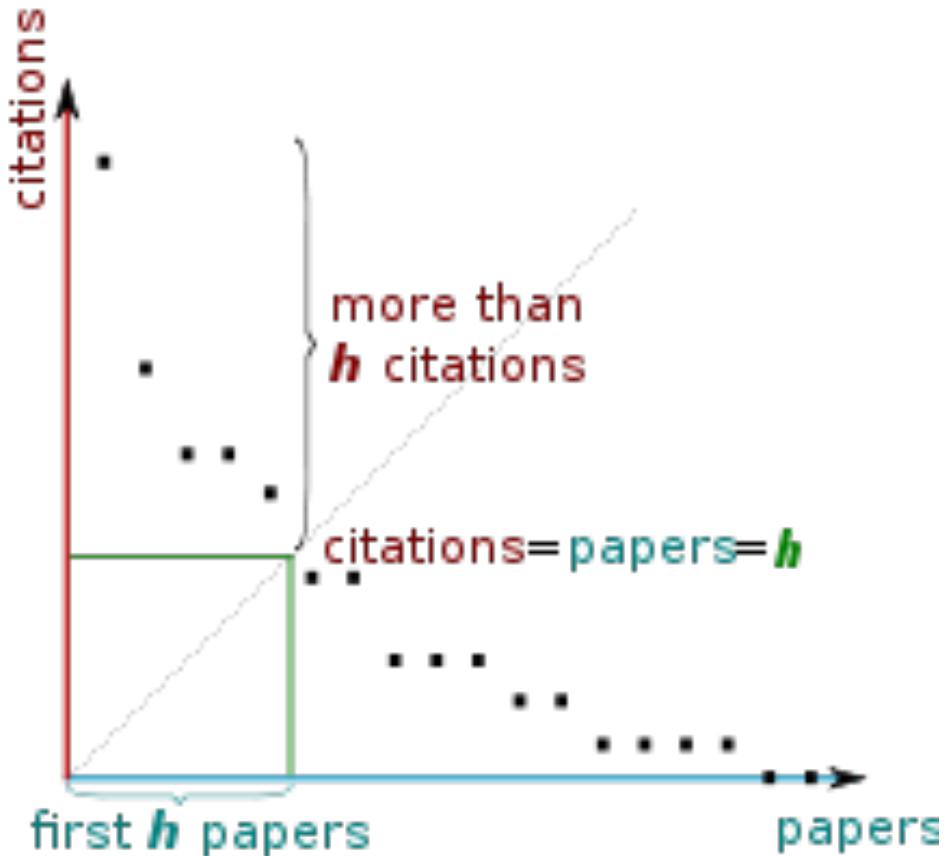
Impact Factor

$$IF_{y,2} = \frac{Citazioni_{y-1} + Citazioni_{y-2}}{Pubblicazioni_{y-1} + Pubblicazioni_{y-2}}$$

- New journal has IF=0 for two years*
- IF Index is subject to problems (self citations, negative citations etc.)

* For the Italian governmental Research Assessment VQR, a five-year IF is used

h -index



	h -index
A.Einstein (1906)	4
P.Higgs	7
P.A.M.Dirac	19
S.Bianco	98

fonte: wikipedia

The Pay Wall, Today

Opendata /
FAIR/ etc

Law on copyright does
not allow publication
right of AAM on open
repository

VQR, ASN Research
Evaluation based on
 $IF_{y,5}$ and Cit

Authors publish on
high-IF oligopoly
journals

A new journal cannot
have a non-zero IF before
2/5 years

Peer review
performed by
unpaid scientists

ANVUR only evaluates
journals appearing on
commercial databases
WOS and SCOPUS

Minimal editing
costs
(camera-ready
required)

Abilitazione Scientifica Nazionale
Valutazione della Qualità della Ricerca
Impact Factor
Web Of Science database (Clarivate)
SCOPUS database (Elsevier)



- Establishing Open Science practices is a challenge
- The evaluation of research (careers, fundings, etc) is entwined with bibliometric criteria, particularly Impact Factor (IF) in STEM disciplines
- Commercial databases are used for governmental research assessment
- How much do we spend in subscriptions ?



Quanto costa l'accesso alle riviste scientifiche in Italia?

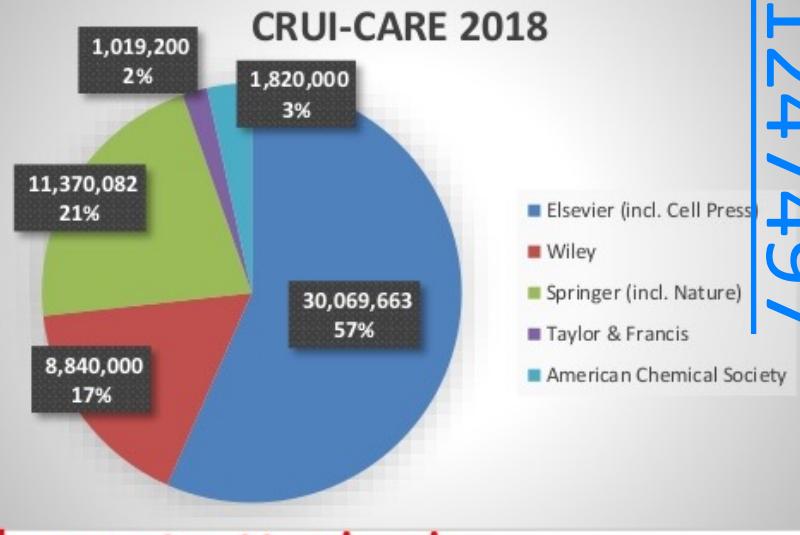
CRUI – Amministratore

<https://www.cruiforme.it/contratti-pubblici.html>

Contratti pubblici 2018

Totale = € 72.475.619

~ 1.450 nuovi ricercatori



Costi di APC non inclusi nelle contrattazioni

OA initiatives promoted by INFN

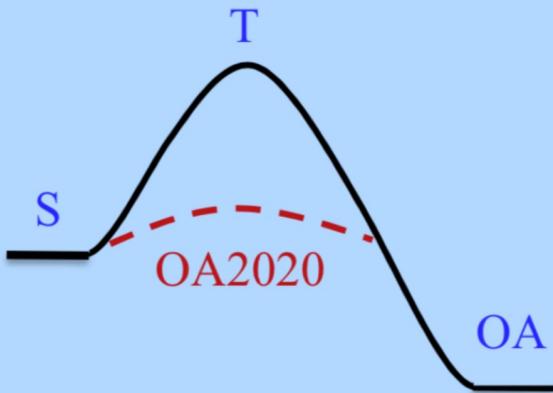


- oa2020.org INFN e Conference of Italian Rectors (CRUI)
 - Redirect subscription monies to APC
- scoap3.org INFN, CRUI, ENEA, CNR
 - Global world-wide collaboration, bid, convert journal to OA (NO DOUBLE DIPPING)
- Plan S cOAlition-S.org
 - Funders:
 - Will not pay APC on hybrid journals
 - Will not use impact factor (IF) for research assessment (following the principles of sfdora.org)
 - Support the green route (immediate deposit of AAM on OA repository)

...All the indications are that the money already invested in the research publishing system is sufficient to enable a **transformation** that will be sustainable for the future. ... [MPDL white paper (2015)]

Scientific View of OA Transformation

Subscription (S):
high cost; restricted
access & usability
(~ 4 kEUR/article)



Transition (T):
activation needed
Catalyst (OA2020)
Open Access (OA):
lower cost; full
access & usability
(~ 1.5-2 kEUR/article)

Ulrich Poeschl MPI Mainz GSSI 14 giugno 2020

Plan S: a disruptive initiative

Guidelines (May 2019)



Plan S

Making full and immediate Open Access a reality



OA journals

Immediate deposit of AAM
on OA repository

Transformative
agreements

1

2

3

gold OA

green OA

ibrido in
transizione

No hybrid journals

Immediate OA, No embargo

No transfer of copyright on AAM to publisher

Research assessment: No Impact Factor

INFN implementation: starting on new projects approves after 01-01-2021

Transformative agreements

- Transition from hybrid to gold APC / PlanS-compliant
- *Moral* commitment to switch journal from hybrid to gold APC by 2024
- Publish and Read fee
- Very popular in northern Europe and USA
- In Italy, negotiated by CRUI-CARE since 2020
 - Extremely used by the Authors
- Challenges:
 - Is the APC market less rigid than subscriptions ?
 - Need to monitor APC's
 - Balance intensive-write and intensive-read Universities
 - Grant publication possibility to Authors belonging to Universities not joining the deal because of lack of funds
 - *waivers* ?



S2O Model (subscribe 2 open)

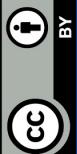
[RCrow et al., <https://onlinelibrary.wiley.com/doi/full/10.1002/leap.1262>]

- In 2021 CRUI-CARE have signed deals for S2O contracts
- S2O is a no-APC model, subscription based, Open Access
- Papers are OA as long as subscriptions are not cancelled.
- Plan S - compliant
- Italian implementation was complex
 - Comply with bid rules of Public Administration

National funders



Der Wissenschaftsfonds.



Luxembourg National
Research Fund



The Research Council
of Norway



UK Research
and Innovation



VINNOVA
Sweden's Innovation Agency



BILL & MELINDA
GATES foundation



TDR
For research on
diseases of poverty
UNICEF • UNDP • World Bank • WHO

asap
Aligning Science
Across Parkinson's

European funders



Go-Green Open Science !

- Institutional Repository
- Open Science Policy



openaccessrepository.it (OAR)

Try it, free DOI when depositing your content
Curated by Frascati Lab library, maintained by INFN Catania

The screenshot shows the homepage of the openaccessrepository.it (OAR) website. At the top, there's a navigation bar with links like "OECD GSF Sco...google Drive", "IBRpc_2015 < CMS < TWiki", and "Dew Point Calculator". Below the navigation is the INFN OAR logo and a search bar. The main content area displays "Latest entries" with two items:

- March 10, 2010 (v1)** [Presentation](#) [Open Access](#)
Performance analyses of EGEE-like Grids in Latin America
Fargetta, M. [Open] Ciuffo, Leandro N.
Evaluate the status of grid infrastructures outside of Europe
Uploaded on March 18, 2019
- November 24, 2015** [Book section](#) [Open Access](#)
MEASUREMENT OF FORWARD AND BACKWARD MULTIPARTICLE MULTIPLICITIES IN HIGH-ENERGY (pp) SOFT INTERACTIONS: COMPARISON WITH HIGH-ENERGY NEUTRINO AND ANTINEUTRINO DEEP INELASTIC SCATTERING
M. BASILE; G. BONVICINI; G. CARA ROMEO; L. CIFARELLI; A. CONTIN; M. CURATOLI; C. D'AMICO; R. ESPOSITO; P. GIUSTI; T. MASSAM; R. NANIA; G. SARTORELLI; G. SUSINNO; L. VOTANO; A. ZICHICHI
Uploaded on March 7, 2019

On the right side, there's a sidebar with the following text:
INVENIO+ZENODO (opensource) based
FA.I.R. compliant
USER FRIENDLY SINGLE DEPOSIT
Data Preservation / Virtual Machine
[Open / Embargoed / Restricted / Closed] Access

At the bottom right of the sidebar, there's a blue box containing the number "43".



New physics with archeo-data

Open
Access

Data
Preservation

Open
Data

Open
Data Analysis

- First determination of the strong coupling constant at NNLO
- New searches in existing e^+e^- data
- QGP-related effects studied in e^+e^- data

OAR is ready for the analysis of archeo-data

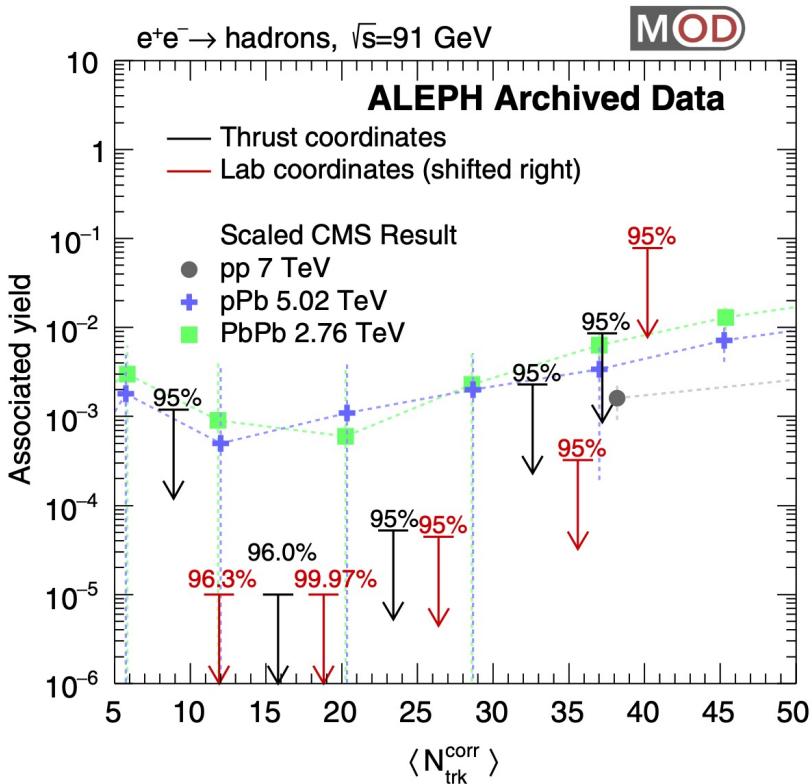
Measurements of Two-Particle Correlations in e^+e^- Collisions at 91 GeV with ALEPH Archived Data

Anthony Badea,¹ Austin Baty^{ID},¹ Paoti Chang,² Gian Michele Innocenti,¹ Marcello Maggi,³ Christopher McGinn,¹ Michael Peters,¹ Tzu-An Sheng,² Jesse Thaler^{ID},¹ and Yen-Jie Lee^{ID},

¹*Massachusetts Institute of Technology, Cambridge, Massachusetts 02139, USA*

²*National Taiwan University, Taipei 10617, Taiwan*

³*INFN Sezione di Bari, Bari, Italy*



Damn, another open access
predatory publisher...



A social network, such as ResearchGate or Academia.edu,

is not an Open Access Repository

	Open access repositories	Academia.edu	ResearchGate
Supports export or harvesting	Yes	No	No
Long-term preservation	Yes	No	No
Business model	Nonprofit (usually)	Commercial. Sells job posting, services, sells data.	Commercial. Sells ads, job, posting services, data.
Sends you lots of e-mails (by default)	No	Yes	Yes
Wants your address book	No	Yes	Yes



<http://creativecommons.org/licenses/by/4.0/>

University of California OSC



Open Science Networking



Recap

- The subscription model is rigid (monopolistic)
- The APC model (pay to publish) should be less rigid (more competitive)
 - Transformative Agreements (APC pay to publish)
 - But, need to negotiate fee waivers for Institutes without funding
 - Redirect subscription monies to APC (**NO AUTHOR PAYS**)
 - Carefully monitor the evolution of APC prices
 - In Italy (CRUI, CNR, INFN, etc) and Europe strong interest to transformative agreements
- While subscribing Transformative Agreements, INFN considers the green route as priority
- **Institutional OS repository**
 - To protect and enhance your results
 - *including data*
- **OS policy**
 - To protect and enhance your results
 - To provide guidance on your rights
 - To assist in critical choices
 - *Publication venue*
 - *Licence*





- Open Science 101 for scientists
- **Open Science and Research Evaluation**
- Open Science and (Italian) copyright law
- Open Science Do's and Dont's for scientists

Open Science and Research Evaluation



- S.F.DORA Declaration sfdora.org
 - *Evaluate what is in the box, not the box*
 - *Do not use IF*
- Open Research Europe
 - peer-reviewed journal, no IF
 - only for EU-funded projects ☹
- “Towards a reform of the research assessment system”
 - <https://op.europa.eu/s/vL1e>



- *Forewords and outline*
- Open Science 101 for scientists
- Open Science and Research Evaluation
- **Open Science and (Italian) copyright law**
- Open Science Do's and Dont's for scientists

Proprietà intellettuale

Proprietà industriale

- brevetti per invenzioni
- disegno industriale
- marchi
- indicazioni geografiche

Diritto d'autore e diritti connessi

- opera letterarie
- opere artistiche
- opere scientifiche
- spettacoli e trasmissioni



rto_Caso_...



1



2



3



4

Copyright (diritto d'autore): diritti economici e diritti morali

- Diritti economici rinunciabili, disponibili, alienabili: pubblicazione, riproduzione, distruzione, elaborazione, comunicazione ecc.
- Diritti morali (della personalità) irrinunciabili, indisponibili, inalienabili: di paternità, di integrità, di inedito, al ritiro dell'opera dal commercio

Roberto Caso - Il diritto (morale) di ripubblicazione in
Open Access - 2022



Ad esempio

- «L'autore cede pienamente, definitivamente e in via esclusiva all'editore tutti i diritti economici d'autore sull'articolo scientifico. I diritti comprendono, a titolo di esempio, il diritto di pubblicare a mezzo stampa, il diritto di comunicare al pubblico, il diritto di riprodurre, il diritto di distribuire il diritto di trarre opere derivate».

Stand up for your rights*

(Robert Nesta Marley)

*on the Authors' Accepted Manuscript





- Disegno di Legge 1146 (modifications to copyright law) was approved in Parlamento, now idle at Senato
- Interaction with Italian publishers is needed
- *Legge di iniziativa popolare* for immediate publication right is being worked on by AISA

<https://aisa.sp.unipi.it/chi-siamo/> Associazione Italiana per la promozione della Scienza Aperta

- "Il popolo esercita l'iniziativa delle leggi, mediante la proposta, da parte di almeno cinquantamila elettori, di un progetto redatto in articoli" (art. 71 della [Costituzione](#)).



- Open Science 101 for scientists
- Open Science and Research Evaluation
- Open Science and (Italian) copyright law
- **Open Science Do's and Dont's for scientists**



Open Science Do's and Dont's for scientists I

- Use your institutional repository and deposit your products (**including Datasets**)
 - If your institute does not have one, use a subject repository
 - If everything fails, use openaccessrepository.it we shall host you
- Read and follow your institutional Open Science policy
 - If your institute does not have one, ask for one
- Always deposit your AAM
- Never give up your rights on AAM
 - If the journal you have chosen demands to transfer AAM rights, pick another journal

Open Science Do's and Dont's for scientists II



- Go for Open Source products as much as possible
- GARR the Italian consortium offers a lot of possibilities:
 - INVENIO/ZENODO for repository
 - INDICO for agenda, conference, meetings bookkeeping
 - BigBlueButton for video conferencing
 - PANDORA/PYDIO shared workspace
 - SYMPA for mailing lists
 - *etc. etc.*

Open Science Do's and Dont's for scientists III



- Publish with SCOAP3 scoap3.org
- Publish with CARE *Transformative Agreements*
- Publish on Open Research Europe your EU-funded products
 - <https://open-research-europe.ec.europa.eu>
- Shop around, choose wisely, avoid predatory journals
 - Inspect the editorial board
 - Any known name ?
 - Is it listed in DOAJ ?
 - Is it listed in cOAlitionS Journal Checker Tool ?
 - Is it the APC too high ? A fair price is < 1500EUR
- Help your librarian in monitoring APC's over time
- Support - and publish on - your University/Academy Press

Open Science Do's and Dont's for scientists IV



- Ask your Institute/University to sign sfdora.org and to remove IF from internal research assessment
- Interact with your Scientific Society
 - Advocate green OA and demand AAM immediate deposit
 - Inform about non-APC, PlanS-compliant models such as Subscribe2Open
- Interact with your local Italian publisher
 - Advocate green OA
 - Persuade that depositing AAM does not imply canceling subscriptions

Open Science Do's and Dont's for scientists IV

- Be aware - Keep informed
- Be part of existing Network
- If you are a Junior Researcher
 - Spend 5% of your time and connect with Early Stage Researchers associations on OS
- If you are a Senior Researcher
 - Spend 10% of your time on OS practiceses



The Pay Wall, Today

Opendata /
FAIR/ etc

Law on copyright does
not allow publication
right of AAM on open
repository

VQR, ASN Research
Evaluation based on
 $IF_{y,5}$ and Cit

Authors publish on
high-IF oligopoly
journals

A new journal cannot
have a non-zero IF before
2/5 years

Peer review
performed by
unpaid scientists

ANVUR only evaluates
journals appearing on
commercial databases
WOS and SCOPUS

Minimal editing
costs
(camera-ready
required)

Abilitazione Scientifica Nazionale
Valutazione della Qualità della Ricerca
Impact Factor
Web Of Science database (Clarivate)
SCOPUS database (Elsevier)

Breaking the Pay Wall Tomorrow

Abilitazione Scientifica Nazionale
Valutazione della Qualità della Ricerca
Impact Factor
Web Of Science database (Clarivate)
SCOPUS database (Elsevier)

New high quality journals access the market

Modified copyright law grants right to immediate deposit of AAM in repository

Research evaluation (VQR, ASN, etc) does not use IF_{y,5}

Authors are not forced to publish on oligopoly, rather pick journal with best quality/price

Institutional OS policy protects copyright of both AAM and data following FAIR principles

An Academic Publisher (not-for-loss) performs peer review on existing platforms (arXiv etc) with fair APC

ANVUR evaluates papers certified by Academic Publisher and listed on the national repository infrastructure

A national repository infrastructure is built and recognized by ANVUR

art. 9

La Repubblica promuove lo sviluppo della cultura e la ricerca scientifica e tecnica. Tutela il paesaggio e il patrimonio storico e artistico della Nazione.

art. 33

L'arte e la scienza sono libere e libero ne è l'insegnamento.



Resources

1. Anna Maria Pastorini (Uni Genova)
 - V Pasquale, AM Pastorini, An Introduction to Open Science and Research Data Management: a PhD course, 2021, [CC-BY], <https://doi.org/10.5281/zenodo.5642944>
 - AM Pastorini, Open connections: transformative actions forward Open Science at Genoa University. Poster presented at: B15 Conference 2021. [CC-BY] <https://doi.org/10.5281/zenodo.5495956>
 - AM Pastorini, GenOA week 2020: i bibliotecari e la sfida dell'accesso aperto. Vedianche, v.30,n.2 (2020), [CC-BY], <https://riviste.aib.it/index.php/vedianche/article/view/12987>
 - M Rognoni, AM Pastorini, Islands and bridges: academic librarians towards Open Innovation and the Internet of Things. Paper presented at: IFLA WLIC 2019 - Athens, Greece - Libraries: dialogue for change in Session S05 - Continuing Professional Development and Workplace Learning. In: Librarians and information professionals as (pro)motors of change: immersing, including and initiating digital transformation for smart societies, 20-21 August 2019, Zagreb, Croatia. [CC-BY] <http://library.ifla.org/id/eprint/2673/>
 - SB e AM Pastorini, Open Access e Proprietà Intellettuale, IANUA Genova 2021 DOI 10.15161/oar.it/73931
2. Ilaria Fava, *Open Research Europe: la nuova piattaforma di pubblicazione della Commissione Europea*. GenOA Week 2021
3. Dario Menasce, *L'Open Access e l'Open Data nel contesto dell'Open Science*. GenOA Week 2021
4. Roberto Caso, La rivoluzione incompiuta. La scienza aperta tra diritto d'autore e proprietà intellettuale, Milano, Ledizioni, 2020
5. APRE, S-legami Manuale d' uso per ricercatori 2022 <https://bit.ly/3K6Si1L>

cOAlitionS Resources

- <https://www.coalition-s.org/coalition-s-develops-rights-retention-strategy/>
- Report and Toolkit to Support Learned Society Publishers Transition to Immediate Open Access
<https://doi.org/10.6084/m9.figshare.c.4561397>
- <https://www.coalition-s.org/plan-s-funders-implementation/>
- <https://www.coalition-s.org/faq/>
- Diamond OA Report <https://doi.org/10.5281/zenodo.4558704>

To know more details

S.Bianco, L.Patrizii, “Plan S e le societa’ scientifiche –Una rivoluzione per l’Open Access ? ”, Il Nuovo Saggiatore 2020
<https://doi.org/10.15161/oar.it/23538>

S.Bianco and L.Patrizii, PLAN S and other progress for Open Access to knowledge, SCIRES 2020 <http://dx.doi.org/10.2423/i22394303v10Sp59>

altro

(69)

S.Bianco et al., Open Science for Fair and Sustainable Access to
Knowledge - SISSA Trieste 2022.05.02 DOI:
10.15161/oar.it/75564



Scientific Societies

S.Bianco and L.Patrizii, PLAN S and other progress for Open Access to knowledge, SCIRES 2020 <http://dx.doi.org/10.2423/i22394303v10Sp59>

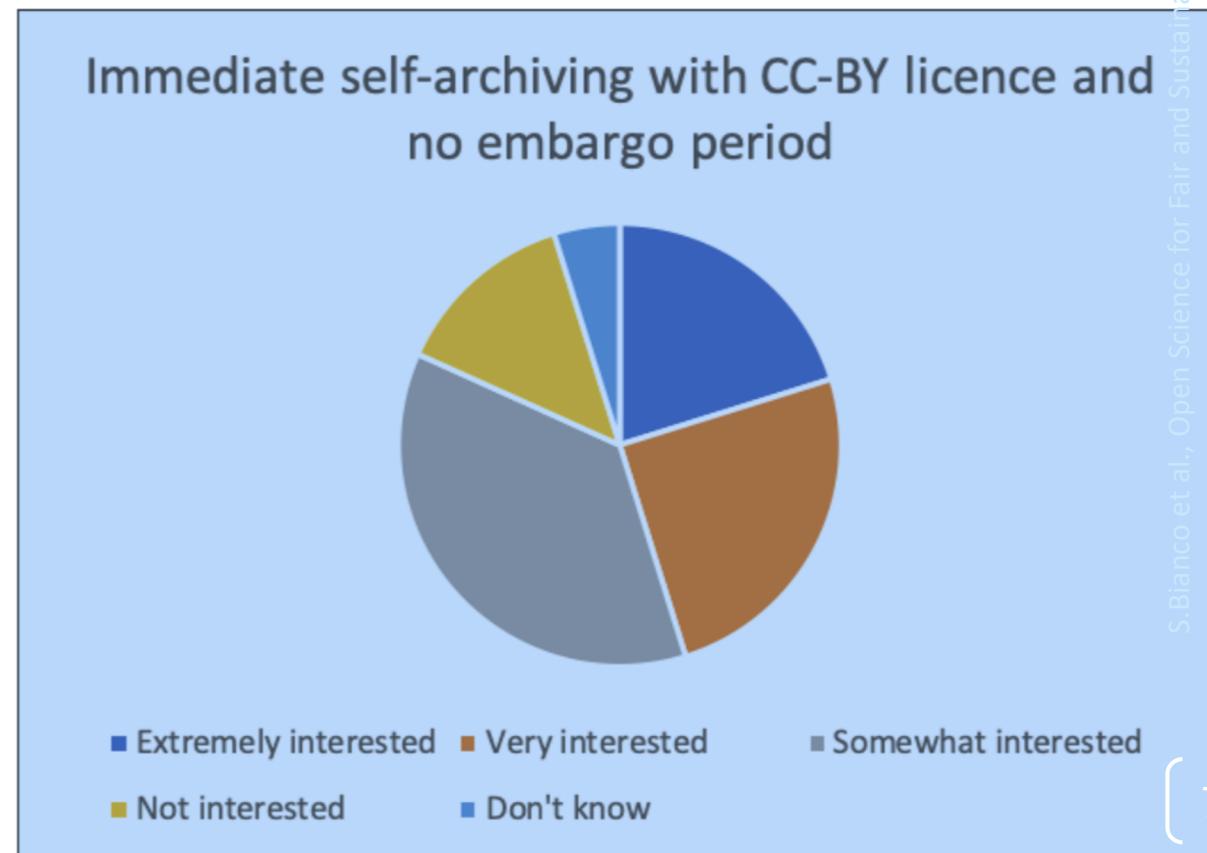


- Historically, the inventors of large scale dissemination of knowledge
- no-profit/no-loss
 - But very much dependent on scientific publications
- Very cautious in switching from subscriptions to APC
 - But normally in favour of green OA
- Example: non-APC, Open Access model adopted by Europ Math Society
 - Subscribe 2 Open
 - <https://ems.press/subscribe-to-open>
 - Plan-S compliant

Dal sondaggio di cOAllition S rivolto alle società scientifiche

Report and Toolkit to Support Learned Society Publishers Transition to Immediate Open Access

<https://doi.org/10.6084/m9.figshare.c4561397>



Una recente conferenza con alcune società scientifiche SIF, EPS, EMS

2020.07.14



Organizzato da GSSI con collaborazione di UMI e INFN (P.Marcati, B.Nelli, S.Bianco)

Workshop on Green Open Access, Transformative Agreements and PlanS

Invited Speakers

Angela Bracco (Univ. Milano), President of Società Italiana di Fisica

Paola Galimberti (Univ. Milano), Research Evaluation and Open Science working group

Jeremy Gibbons (Oxford Univ.)

Frédéric Helein (Univ.Paris Diderot) EC member of European Math. Society

Maria Chiara Pievatolo (Univ. Pisa) , University Press editor and vicePresident of AISA

Ulrich Pöschl (Max Planck Institute for Chemistry)

Johan Rooryck (Univ. Leiden), Coalition S

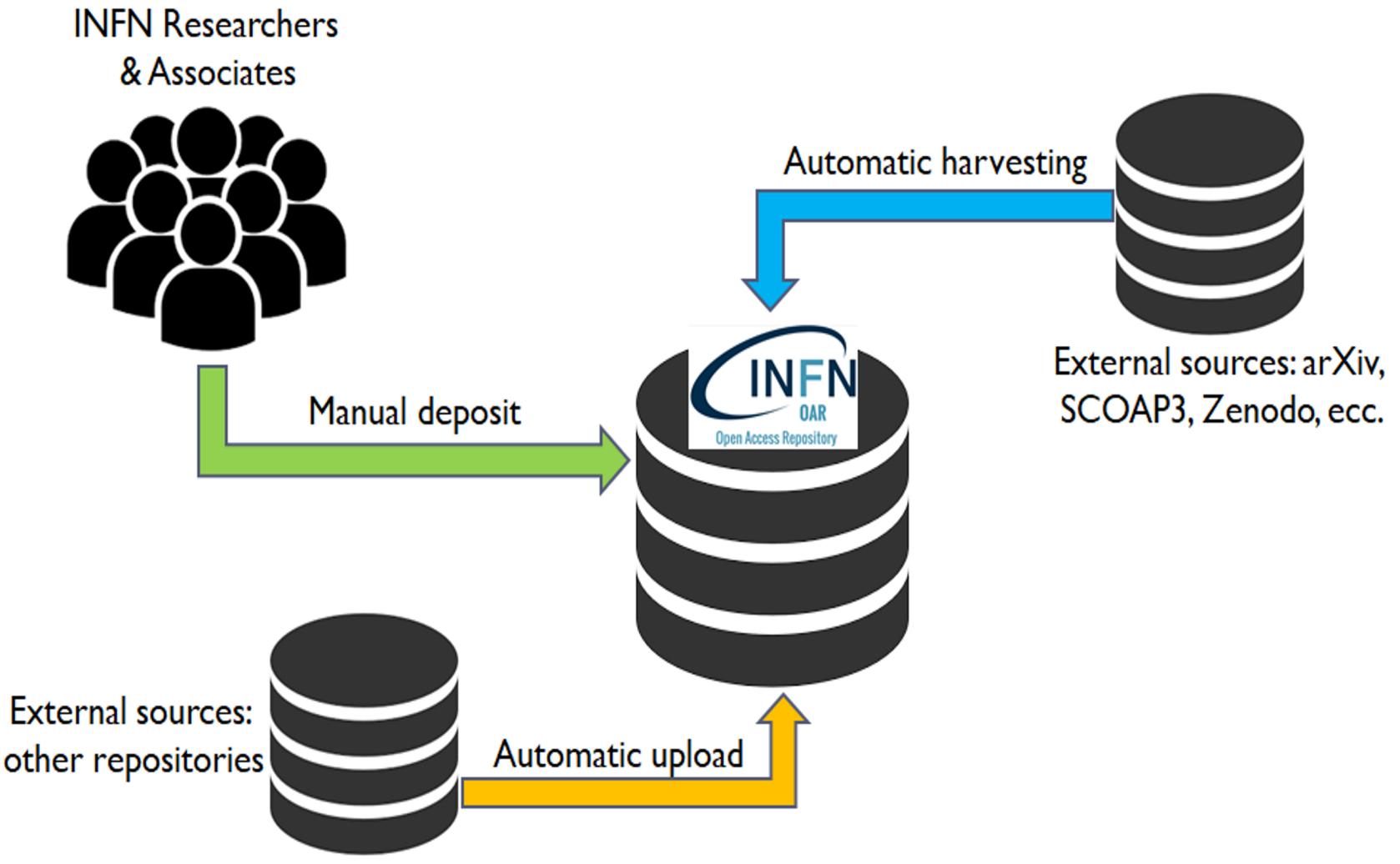
Petra Rudolf (Univ. Groningen), President of European Phys. Society

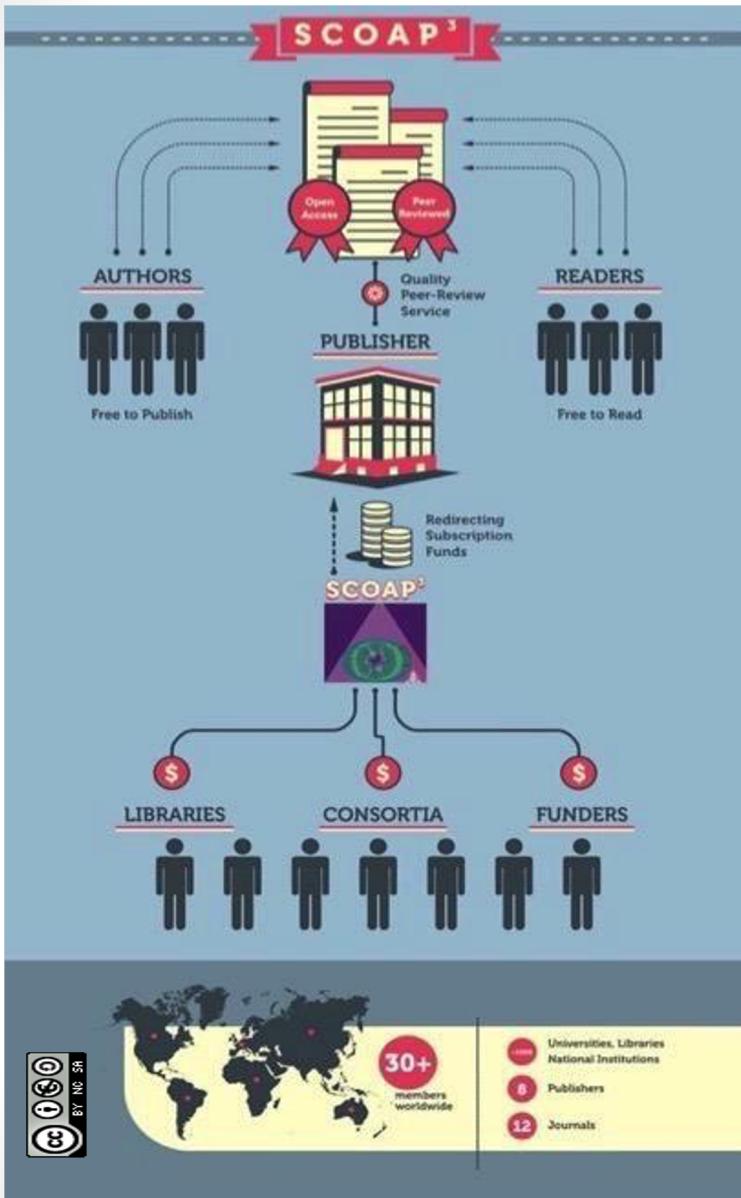
Stefano Ruffo (SISSA Trieste), Rector and Coordinator of CRUI Library Commission

Susanna Terracini (Univ. Torino), former member of ANVUR and EC member of EMS

<https://www.gssi.it/seminars/seminars-and-events-2020/item/9917-workshop-on-green-open-access-transformative-agreements-and-plans>

INFN OAR feeding model





Sponsoring Consortium for OAP in Particle Physics

scoop3.org

- *Commercial bid*
- *Subscriptions \$ → APC*
- *Global collaboration*
- ***NO Authors-pay***
- ***NO double-dipping***
- **INFN and CRUI coordinate**
- **Italian partners**

SCOAP3-funded articles:

hep-ex hep-ph
hep-th hep-lat