

*Successful transition of  
High-Energy Physics  
publications into Gold OA  
Review of two years of SCOAP<sup>3</sup>*

01<sup>st</sup> December 2015  
Alexander Kohls, CERN  
Nina Karlstrøm, CRISin

# What is SCOAP<sup>3</sup> ?



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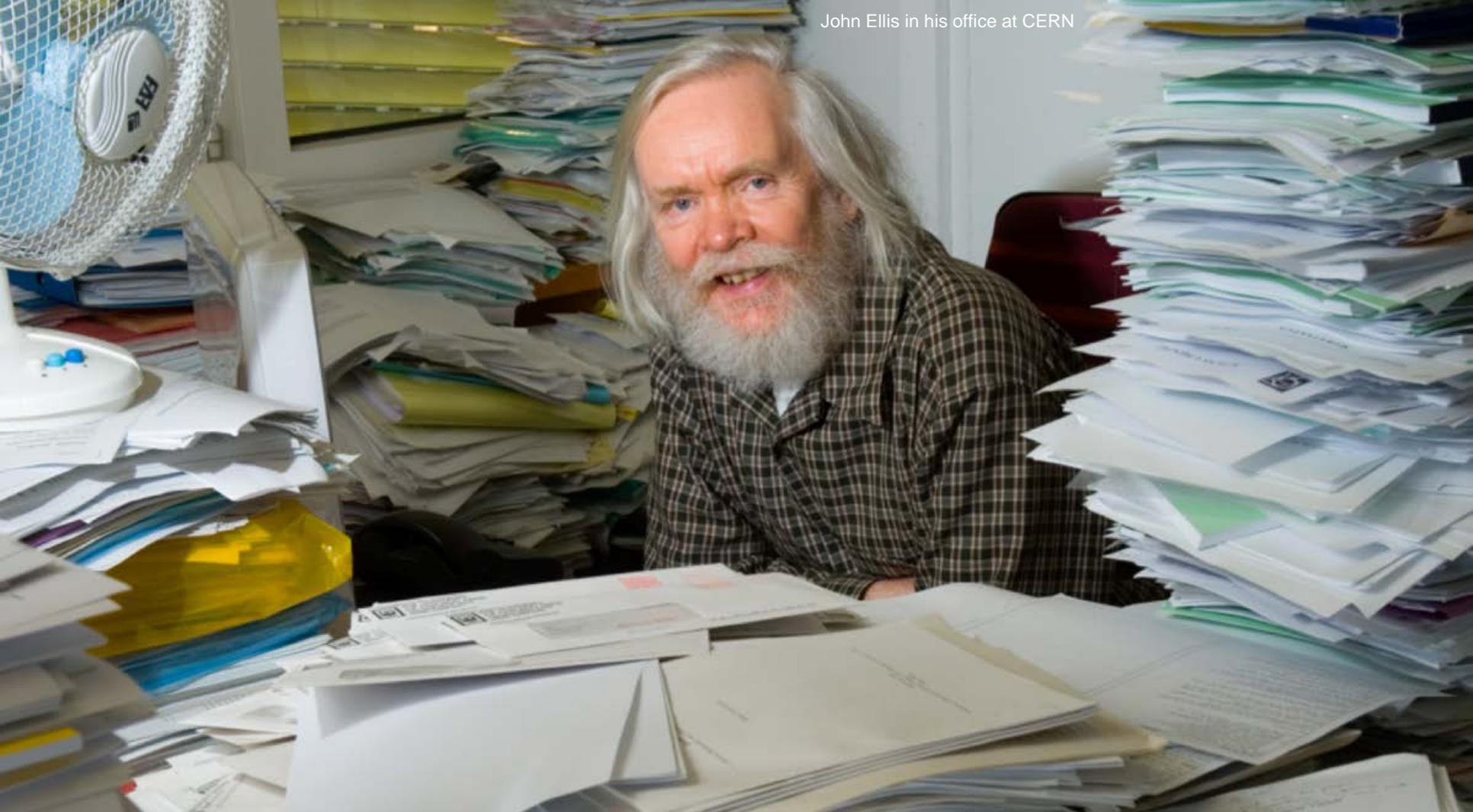
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Publishers



CERN



High-Energy Physics: ~7'500 papers/year  
90% written by 1 to 5 authors  
Only 2% of overall publications from CERN



## Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC<sup>☆</sup>

CMS Collaboration<sup>\*</sup>

CERN, Switzerland

This paper is dedicated to the memory of our colleagues who worked on CMS but have since passed away. In recognition of their many contributions to the achievement of this observation.

### ARTICLE INFO

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 Editor: W.-D. Schlatter

#### Keywords:

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### ABSTRACT

Results are presented from searches for the standard model Higgs boson in proton–proton collisions at  $\sqrt{s} = 7$  and 8 TeV in the Compact Muon Solenoid experiment at the LHC, using data samples corresponding to integrated luminosities of up to 5.1 fb<sup>-1</sup> at 7 TeV and 5.3 fb<sup>-1</sup> at 8 TeV. The search is performed in five decay modes:  $\gamma\gamma$ , ZZ, W<sup>+</sup>W<sup>-</sup>,  $\tau^+\tau^-$ , and bb. An excess of events is observed above the expected background, with a local significance of 5.0 standard deviations, at a mass near 125 GeV, signalling the production of a new particle. The expected significance for a standard model Higgs boson of that mass is 5.8 standard deviations. The excess is most significant in the two decay modes with the best mass resolution,  $\gamma\gamma$  and ZZ; a fit to these signals gives a mass of  $125.3 \pm 0.4(\text{stat.}) \pm 0.5(\text{syst.})$  GeV. The decay to two photons indicates that the new particle is a boson with spin different from one.

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### 1. Introduction

The standard model (SM) of elementary particles provides a remarkably accurate description of results from many accelerator and non-accelerator based experiments. The SM comprises quarks and leptons as the building blocks of matter, and describes their interactions through the exchange of force carriers: the photon for electromagnetic interactions, the W and Z bosons for weak interactions, and the gluons for strong interactions. The electromagnetic and weak interactions are unified in the electroweak theory. Although the predictions of the SM have been extensively confirmed, the question of how the W and Z gauge bosons acquire mass whilst the photon remains massless is still open.

Nearly fifty years ago it was proposed [1–6] that spontaneous symmetry breaking in gauge theories could be achieved through the introduction of a scalar field. Applying this mechanism to the electroweak theory [7–9] through a complex scalar doublet field leads to the generation of the W and Z masses, and to the prediction of the existence of the SM Higgs boson (H). The scalar field also gives mass to the fundamental fermions through the Yukawa interaction. The mass  $m_H$  of the SM Higgs boson is not predicted by theory. However, general considerations [10–13] suggest that

$m_H$  should be smaller than  $\sim 1$  TeV, while precision electroweak measurements imply that  $m_H < 152$  GeV at 95% confidence level (CL) [14]. Over the past twenty years, direct searches for the Higgs boson have been carried out at the LEP collider, leading to a lower bound of  $m_H > 114.4$  GeV at 95% CL [15], and at the Tevatron proton–antiproton collider, excluding the mass range 162–166 GeV at 95% CL [16] and detecting an excess of events, recently reported in [17–19], in the range 120–135 GeV.

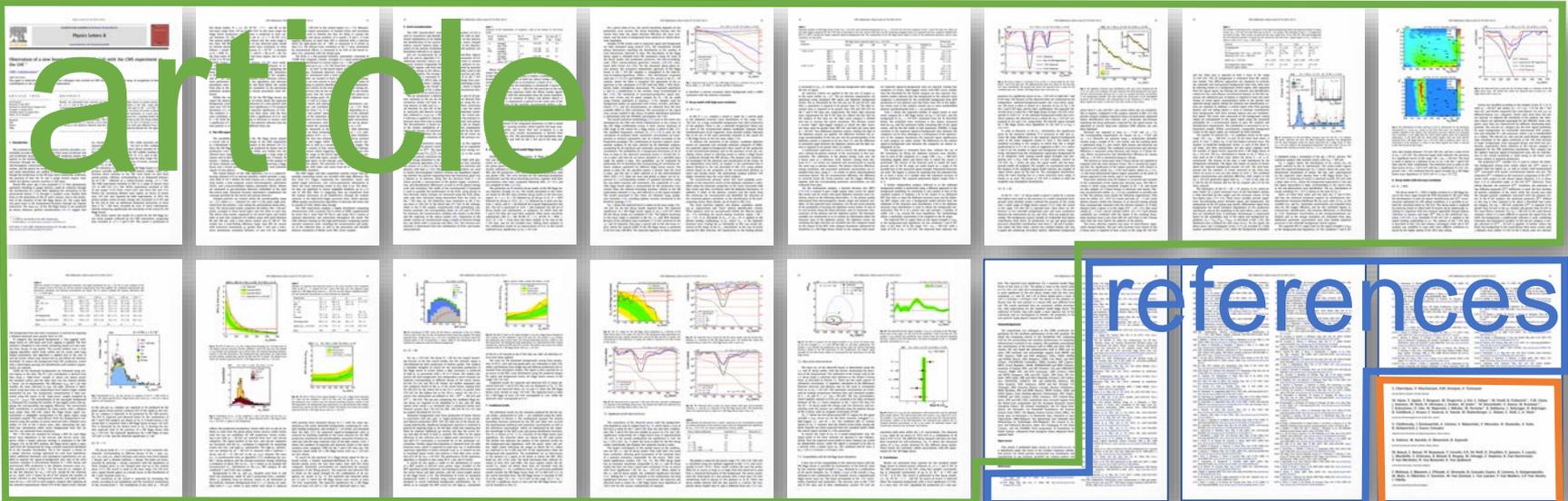
The discovery or exclusion of the SM Higgs boson is one of the primary scientific goals of the Large Hadron Collider (LHC) [20]. Previous direct searches at the LHC were based on data from proton–proton collisions corresponding to an integrated luminosity of 5 fb<sup>-1</sup> collected at a centre-of-mass energy  $\sqrt{s} = 7$  TeV. The CMS experiment excluded at 95% CL a range of masses from 127 to 600 GeV [21]. The ATLAS experiment excluded at 95% CL the ranges 111.4–116.6, 119.4–122.1 and 129.2–541 GeV [22]. Within the remaining allowed mass region, an excess of events near 125 GeV was reported by both experiments. In 2012 the proton–proton centre-of-mass energy was increased to 8 TeV and by the end of June an additional integrated luminosity of more than 5 fb<sup>-1</sup> had been recorded by each of these experiments, thereby enhancing significantly the sensitivity of the search for the Higgs boson.

This Letter reports the results of a search for the SM Higgs boson using samples collected by the CMS experiment, comprising data recorded at  $\sqrt{s} = 7$  and 8 TeV. The search is performed in

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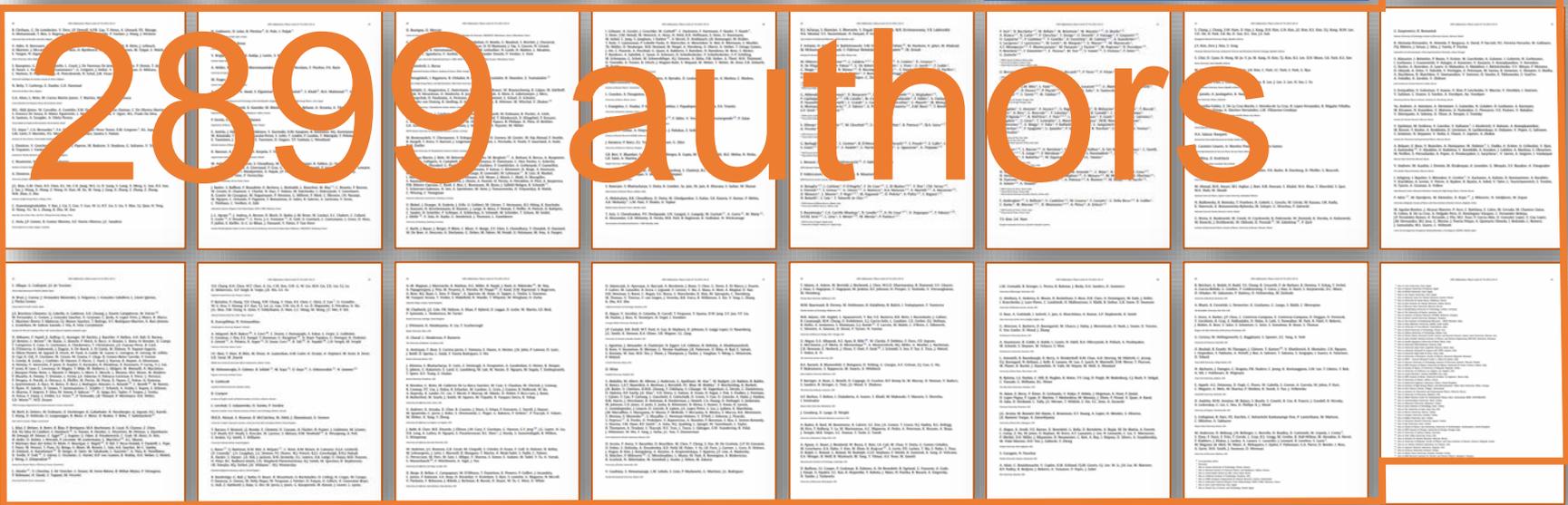
<sup>\*</sup> E-mail address: cms-publication-committee-chair@cern.ch.

# article



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# 2899 authors




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**High Energy Physics – Experiment**

**Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC**

The [ATLAS Collaboration](#)  
*(Submitted on 31 Jul 2012 (v1), last revised 31 Aug 2012 (this version, v2))*

A search for the Standard Model Higgs boson in proton–proton collisions with the ATLAS detector at the LHC is presented. The datasets used correspond to integrated luminosities of approximately  $4.8 \text{ fb}^{-1}$  collected at  $\sqrt{s} = 7 \text{ TeV}$  in 2011 and  $5.8 \text{ fb}^{-1}$  at  $\sqrt{s} = 8 \text{ TeV}$  in 2012. Individual searches in the channels  $H \rightarrow ZZ^{(*)} \rightarrow llll$ ,  $H \rightarrow \gamma\gamma$  and  $H \rightarrow WW \rightarrow e \nu \mu \nu$  in the 8 TeV data are combined with previously published results of searches for  $H \rightarrow ZZ^{(*)}$ ,  $WW^{(*)}$ ,  $b\bar{b}$  and  $\tau^+ \tau^-$  in the 7 TeV data and results from improved analyses of the  $H \rightarrow ZZ^{(*)} \rightarrow llll$  and  $H \rightarrow \gamma\gamma$  channels in the 7 TeV data. Clear evidence for the production of a neutral boson with a measured mass of  $126.0 \pm 0.4(\text{stat}) \pm 0.4(\text{sys}) \text{ GeV}$  is presented. This observation, which has a significance of 5.9 standard deviations, corresponding to a background fluctuation probability of  $1.7 \times 10^{-9}$ , is compatible with the production and decay of the Standard Model Higgs boson.

**Comments:** 24 pages plus author list (38 pages total), 12 figures, 7 tables, revised author list, matches version to appear in Physics Letters B  
**Subjects:** [High Energy Physics – Experiment \(hep-ex\)](#)  
**Journal reference:** Phys.Lett. B716 (2012) 1–29  
**DOI:** [10.1016/j.physletb.2012.08.020](https://doi.org/10.1016/j.physletb.2012.08.020)  
**Report number:** CERN-PH-EP-2012-218  
**Cite as:** [arXiv:1207.7214 \[hep-ex\]](#)  
 (or [arXiv:1207.7214v2 \[hep-ex\]](#) for this version)

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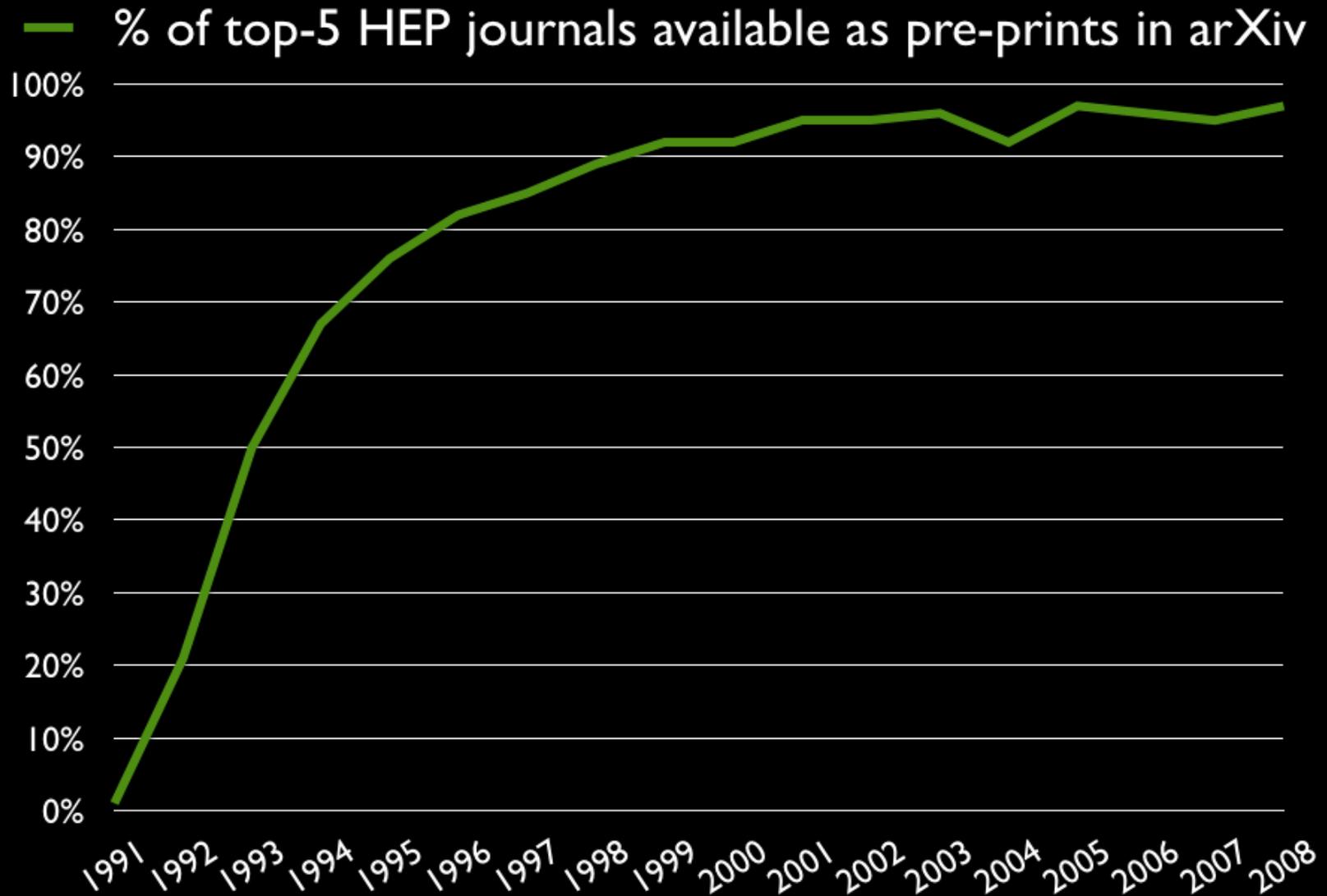
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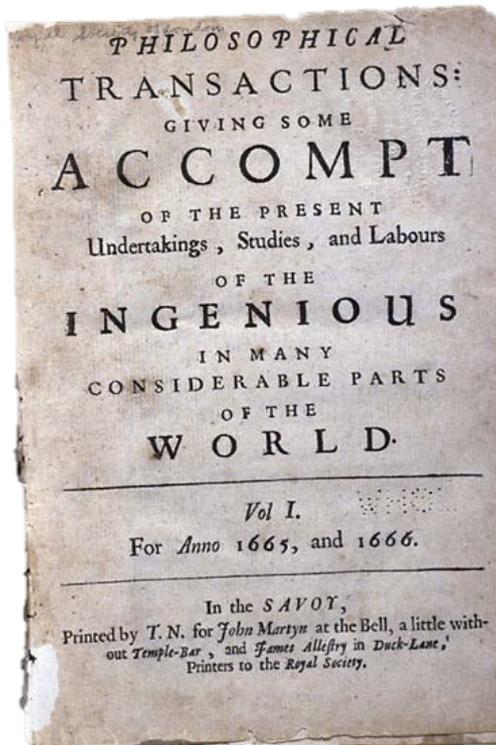


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High Energy Physics - Experiment

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Comments: 24 pages plus author list (38 pages total), 12 figures, 7 tables, revised author list, matches version to appear in Physics Letters B

Subjects: High Energy Physics - Experiment (hep-ex)

Journal reference: Phys.Lett. 8718 (2012) 1-29

DOI: 10.1016/j.physletb.2012.08.020

Report number: CERN-PH-EP-2012-218

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Physics Letters B 916 (2012) 1-29

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### Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC<sup>1,2</sup>

ATLAS Collaboration<sup>\*</sup>  
This paper is dedicated to the memory of our ATLAS colleagues who did not live to see the full impact and significance of their contributions to the experiment.

ARTICLE INFO

ABSTRACT

A search for the Standard Model Higgs boson in proton-proton collisions with the ATLAS detector at the LHC is presented. The datasets used correspond to integrated luminosities of approximately  $4.8 \text{ fb}^{-1}$  collected at  $\sqrt{s} = 7 \text{ TeV}$  in 2011 and  $5.8 \text{ fb}^{-1}$  at  $\sqrt{s} = 8 \text{ TeV}$  in 2012. Individual searches in the channels  $H \rightarrow ZZ^{(*)} \rightarrow 4\ell$ ,  $H \rightarrow \gamma\gamma$  and  $H \rightarrow WW^{(*)} \rightarrow \ell\nu\ell\nu$  in the 7 TeV data are combined with previously published results of searches for  $H \rightarrow ZZ^{(*)} \rightarrow 4\ell$  and  $H \rightarrow \gamma\gamma$  in the 7 TeV data and results from improved analyses of the  $H \rightarrow ZZ^{(*)} \rightarrow 4\ell$  and  $H \rightarrow \gamma\gamma$  channels in the 8 TeV data. Clear evidence for the production of a neutral boson with a measured mass of  $126.0 \pm 0.4 \text{ (stat)} \pm 0.4 \text{ (stat)} \pm 0.4 \text{ (sys)} \text{ GeV}$  is presented. This observation, which has a significance of 5.9 standard deviations, corresponds to a background fluctuation probability of  $1.7 \times 10^{-9}$ , is compatible with the production and decay of the Standard Model Higgs boson.

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### 1. Introduction

The Standard Model (SM) of particle physics [1-4] has been tested by many experiments over the last four decades and has been shown to successfully describe high energy particle interactions. However, the mechanism that breaks electroweak symmetry in the SM has not been verified experimentally. This mechanism [5-10], which gives mass to massive elementary particles, implies the existence of a scalar particle, the SM Higgs boson. The search for the Higgs boson, the only elementary particle in the SM that has not yet been observed, is one of the highlights of the Large Hadron Collider (LHC) physics programme.

Indirect limits on the SM Higgs boson mass of  $m_H < 158 \text{ GeV}$  at 95% confidence level (CL) have been set using global fits to precision electroweak results [12]. Direct searches at LEP [13], the Tevatron [14-16] and the LHC [17,18] have previously excluded, at 95% CL, a SM Higgs boson with mass below 600 GeV, apart from some mass regions between 116 GeV and 127 GeV.

Both the ATLAS and CMS Collaborations reported excesses of events in their 2011 datasets of proton-proton (pp) collisions at centre-of-mass energy  $\sqrt{s} = 7 \text{ TeV}$  at the LHC, which were compatible with SM Higgs boson production and decay in the mass region 124-126 GeV, with significances of 2.9 and 3.1 standard deviations ( $\sigma$ ), respectively [17,18]. The CDF and D0 experiments at the Tevatron have also recently reported a broad excess in the mass region 120-135 GeV, using the existing LHC constraints, the observed local significances for  $m_H = 125 \text{ GeV}$  are 2.7 $\sigma$  for CDF [14], 1.1 $\sigma$  for D0 [15] and 2.8 $\sigma$  for their combination [16].

The previous ATLAS searches in  $4.4-4.8 \text{ fb}^{-1}$  of data at  $\sqrt{s} = 7 \text{ TeV}$  are combined here with new searches for  $H \rightarrow ZZ^{(*)} \rightarrow 4\ell$ ,  $H \rightarrow \gamma\gamma$  and  $H \rightarrow WW^{(*)} \rightarrow \ell\nu\ell\nu$  in the 5.8-5.9  $\text{fb}^{-1}$  of pp collision data taken at  $\sqrt{s} = 8 \text{ TeV}$  between April and June 2012. The data were recorded with instantaneous luminosities up to  $6.8 \times 10^{33} \text{ cm}^{-2} \text{ s}^{-1}$ ; they are therefore affected by multiple pp collisions occurring in the same or neighbouring bunch crossings (pile-up). In the 7 TeV data, the average number of interactions per bunch crossing was approximately 10; the average increased to approximately 20 in the 8 TeV data. The reconstruction, identification and isolation criteria used for electrons and photons in the 8 TeV data are improved, making the  $H \rightarrow ZZ^{(*)} \rightarrow 4\ell$  and  $H \rightarrow \gamma\gamma$  searches more robust against the increased pile-up. These analyses were re-optimised with simulation and frozen before looking at the 8 TeV data.

In the  $H \rightarrow WW^{(*)} \rightarrow \ell\nu\ell\nu$  channel, the increased pile-up deteriorates the event missing transverse momentum,  $E_{\text{miss}}$ , resolution, which results in significantly larger Drell-Yan background in the same-flavour final states. Since the  $\tau\tau$  channel provides most of the sensitivity of the search, only this final state is used in the analysis of the 8 TeV data. The kinematic region in which a SM Higgs boson with a mass between 110 GeV and 140 GeV is

<sup>\*</sup> © CERN for the benefit of the ATLAS Collaboration.  
<sup>†</sup> E-mail address: atlas.publications@cern.ch.

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http://dx.doi.org/10.1016/j.physletb.2012.08.020

<sup>1</sup> The symbol  $\ell$  stands for electron or muon.

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Part of the CERN mission (1953): “[...] sponsoring of international co-operation in nuclear research, including co-operation outside the Laboratories [which] may include in particular [...] the dissemination of information”



LHC: largest scientific instrument ever built, 27km



CERN principle of Openness (1953): “the results of its experimental and theoretical work shall be published or otherwise made generally available”



A central globe of the Earth is surrounded by ten hands of various skin tones, reaching in from all directions. The hands are positioned as if they are holding or supporting the globe. Overlaid on the globe is the text "Build a global partnership" in a bold, orange, sans-serif font. The background is plain white.

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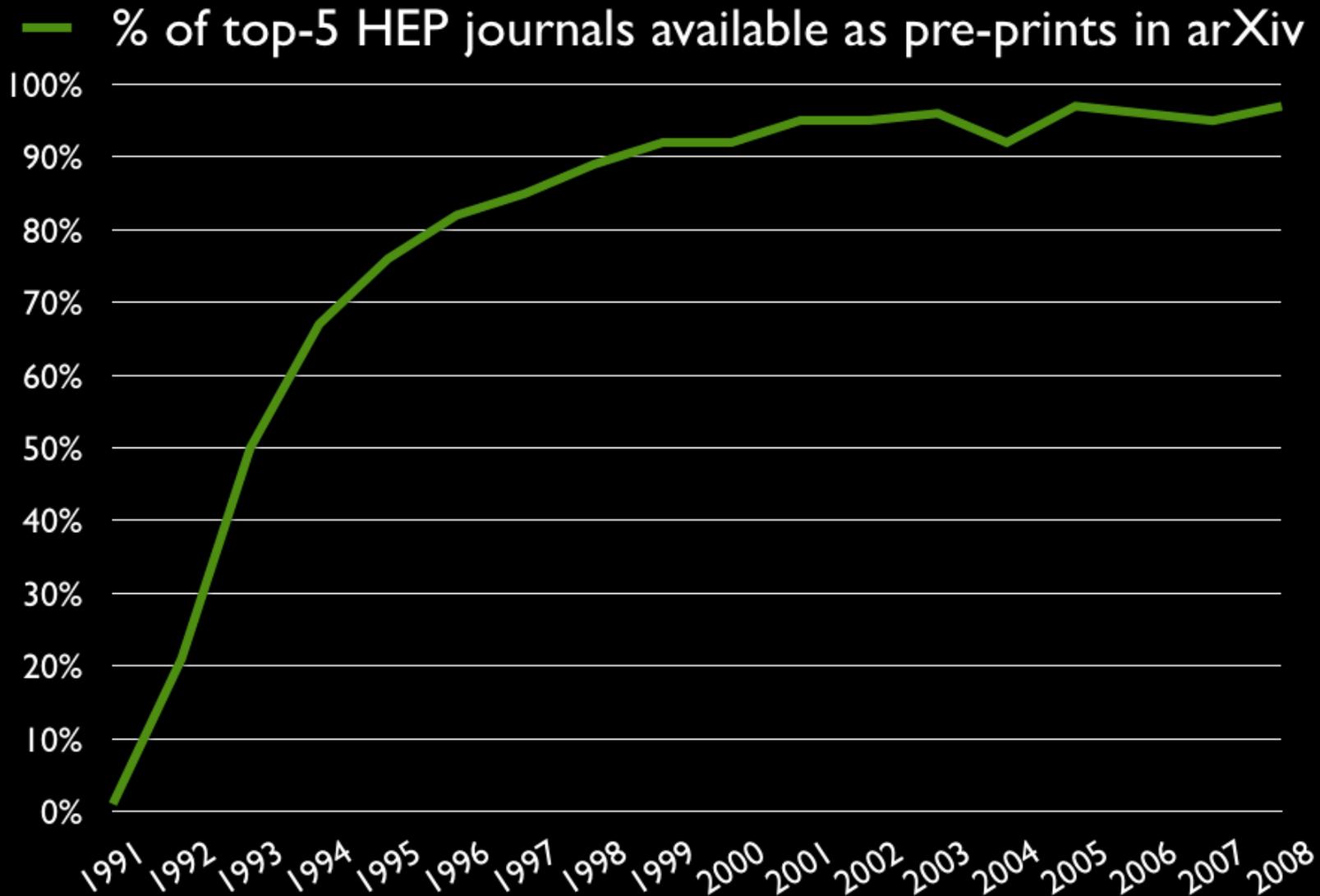
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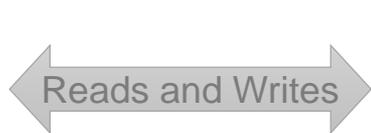
Gentil-Beccot, Mele, Brooks, arXiv:0906.5418

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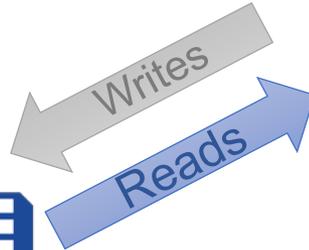
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- Retains the copyright



Publishers



Reduction on Subscriptions



Libraries / Consortia

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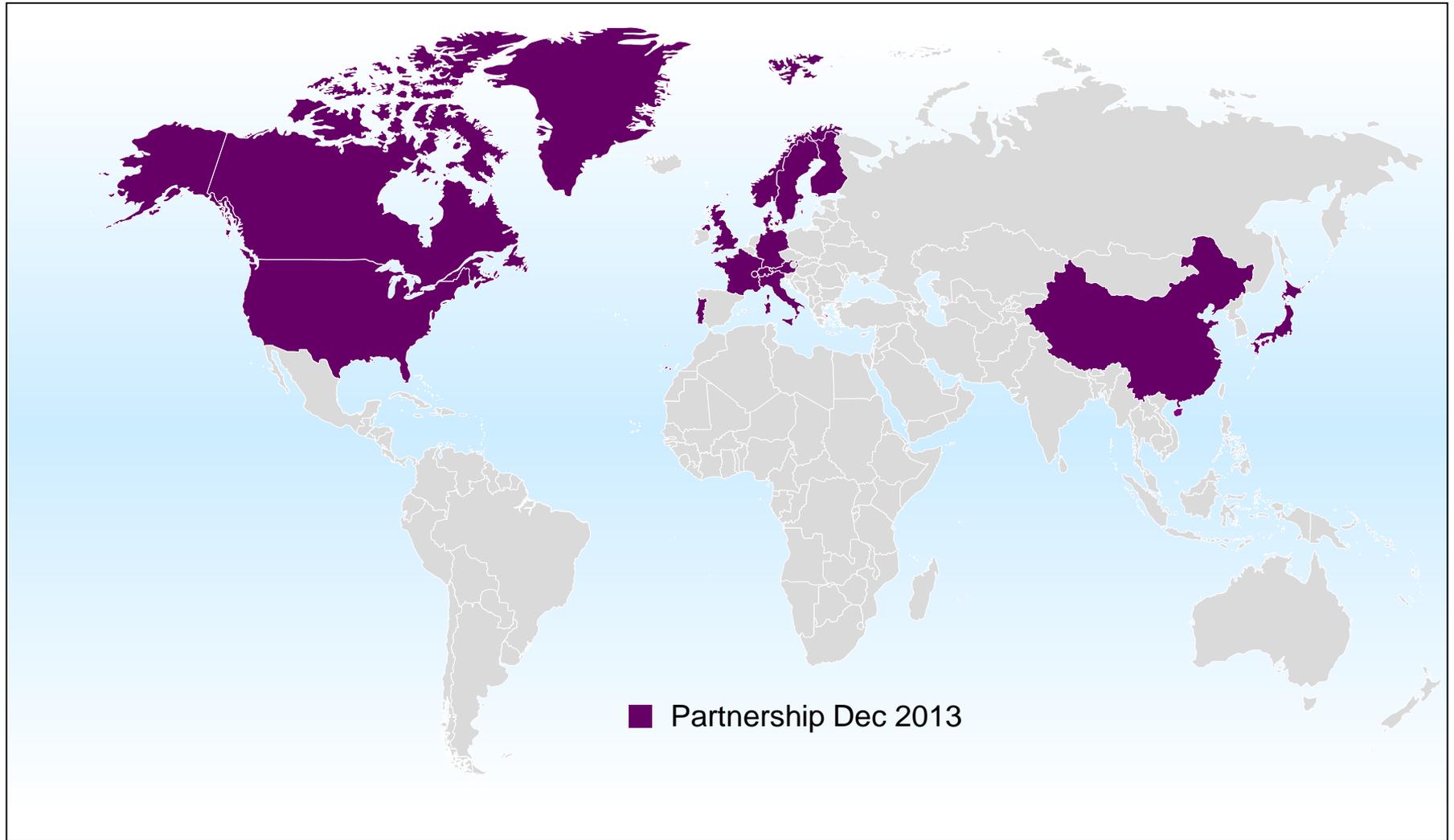
Funding Agencies

# Review of two years of SCOAP<sup>3</sup>

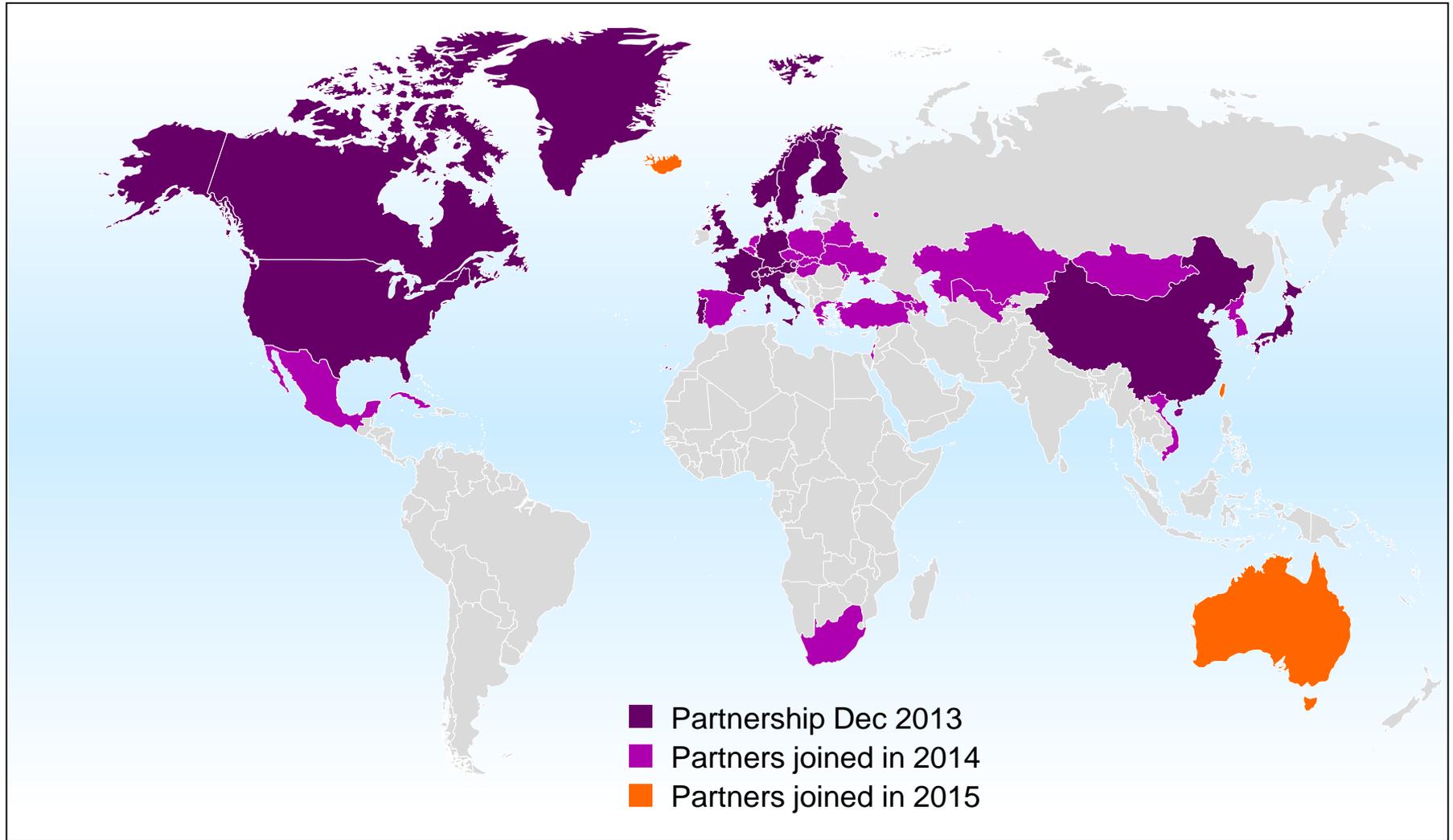
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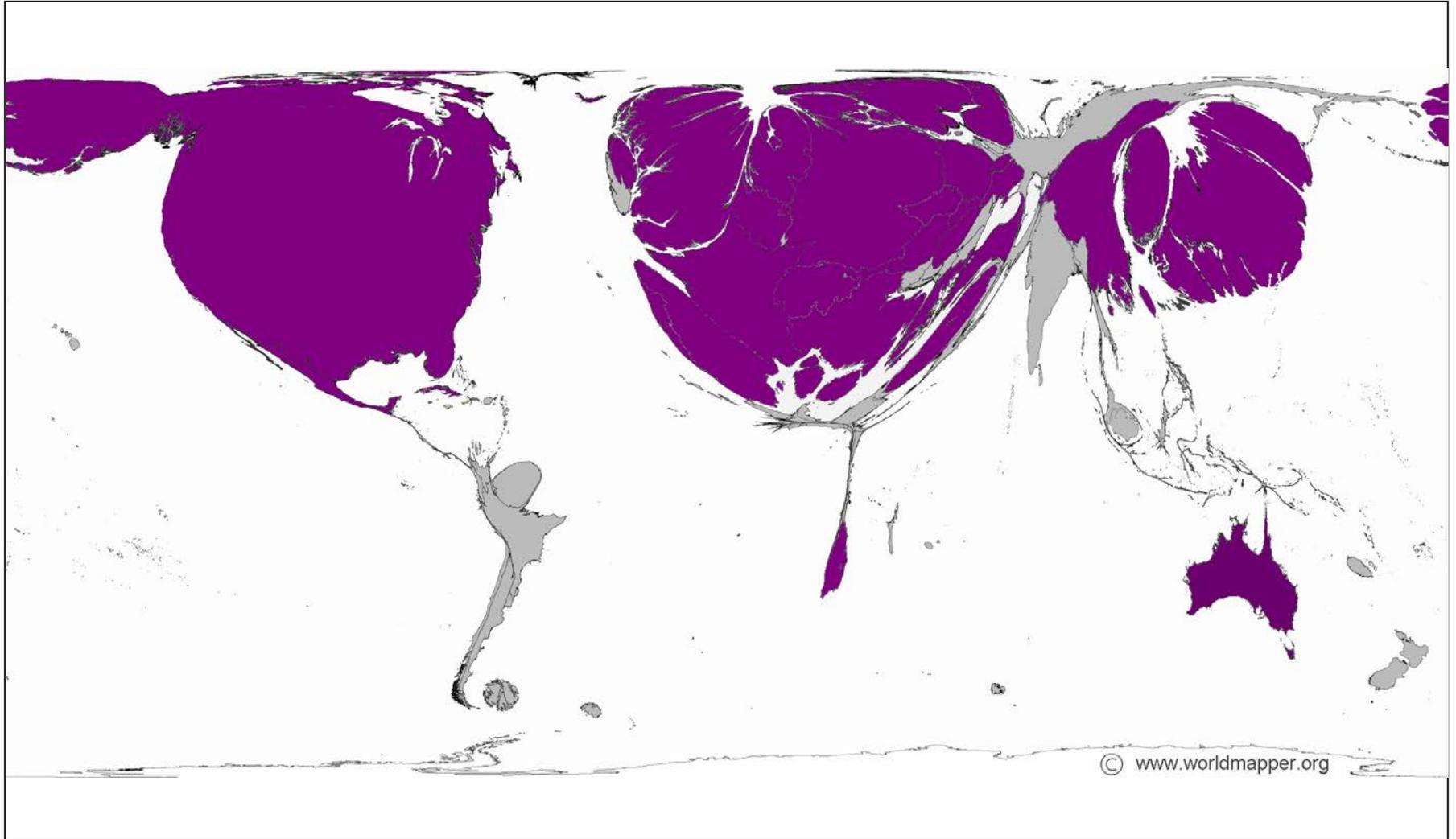


# 47 countries and IGOs today - and still growing...

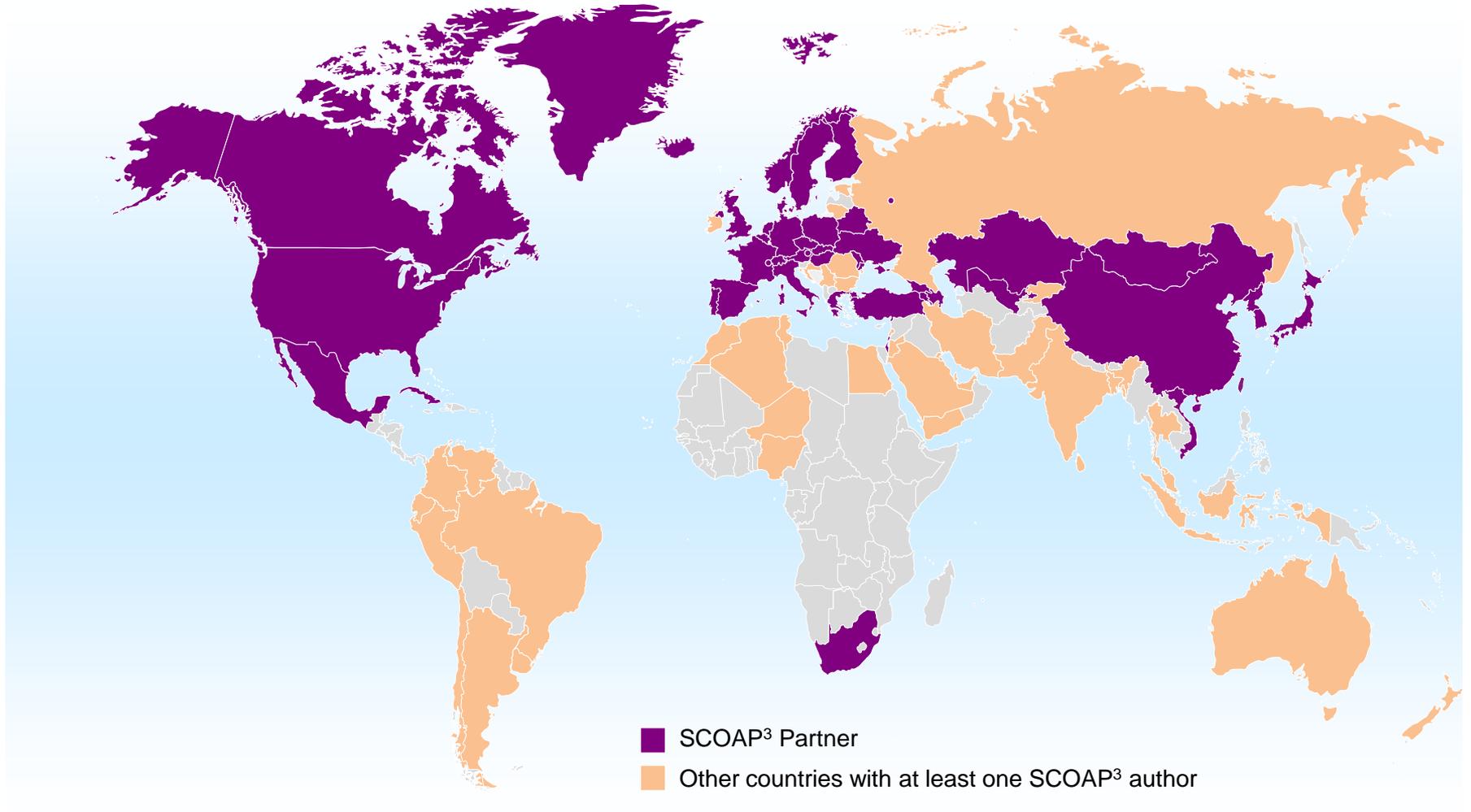


~3,000 libraries, funding agencies and research institutions

# Research intensive countries and SCOAP<sup>3</sup>



Territory size shows the proportion of all scientific papers published in 2001 written by authors living there <http://www.worldmapper.org/display.php?selected=205>



18'000 authors from 90 countries

Review of two years of SCOAP<sup>3</sup>

## II. Publications

The background of the slide features a large, faint, light-gray diamond crystal structure. The diamond is oriented with one of its faces towards the viewer, showing a complex network of intersecting planes and facets. The overall aesthetic is clean and scientific, with a light gray color palette.

Publisher	Journal	articles
	Nuclear Physics B	624
	Physics Letters B	1'700
 Hindawi	Advances in High Energy Physics	316
	 Chinese Physics C	44
	 Journal of Cosmology & Astroparticle Physics	418
	 DPG New Journal of Physics	17
 JAGIELLONIAN UNIVERSITY IN KRAKOW	Acta Physica Polonica B	38
 OXFORD UNIVERSITY PRESS	 Progress of Theoretical & Experimental Physics	156
 Springer	 European Physical Journal C	1'075
	 Journal of High Energy Physics	3'943

Articles as of November 30<sup>th</sup> 2015: 8,331

Publisher	Journal	articles
	Nuclear Physics B	624
	Physics Letters B	1'700
 Hindawi	Advances in High Energy Physics	316
	Chinese Physics C	44
	Journal of Cosmology & Astroparticle Physics	418
	New Journal of Physics	17
	Acta Physica Polonica B	38
 	Progress of Theoretical & Experimental Physics	156
	European Physical Journal C	1'075
	Journal of High Energy Physics	3'943

> 50% of HEP

Articles as of November 30<sup>th</sup> 2015: 8,331

# Review of two years of SCOAP<sup>3</sup>

## III. Price



Publisher	Journal	APC
	Nuclear Physics B	\$ 2'000
	Physics Letters B	\$ 1'800
 Hindawi	Advances in High Energy Physics	\$ 1'000
	 Chinese Physics C	£ 1'000
	 Journal of Cosmology & Astroparticle Physics	£ 1'400
	 DPG New Journal of Physics	£ 1'200
 JAGIELLONIAN UNIVERSITY IN KRAKOW	Acta Physica Polonica B	€ 500
 OXFORD UNIVERSITY PRESS 	Progress of Theoretical and Experimental Physics	£ 1'000
	 European Physical Journal C	€ 1'500
	 Journal of High Energy Physics	€ 1'200

Average effective APC 2014-2015: € 1'105

(SCOAP<sup>3</sup> pays maximum = 2011 #articles, rest free)

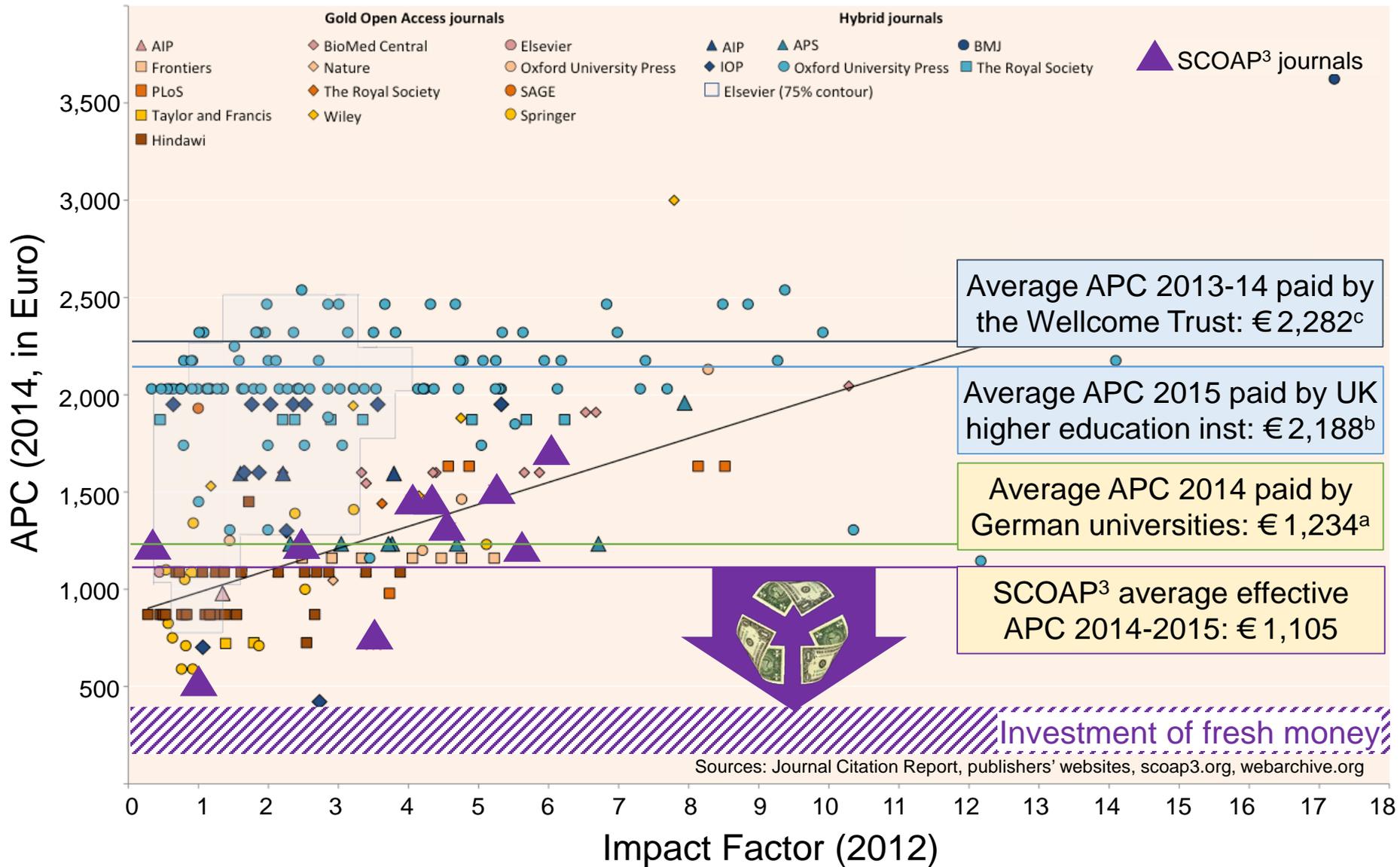


Chart: C. Romeu *et al.* (2014) *The SCOAP3 initiative and the Open Access - Article-Processing-Charge market: global partnership and competition improve value in the dissemination of science* DOI: 10.2314/CERN/C26P.W9DT

- a) <https://github.com/OpenAPC/openapc-de>;
- b) [http://figshare.com/articles/2015\\_Jan\\_June\\_UK\\_APC\\_data\\_combined/1509860](http://figshare.com/articles/2015_Jan_June_UK_APC_data_combined/1509860)
- c) <http://blog.wellcome.ac.uk/2015/03/03/the-reckoning-an-analysis-of-wellcome-trust-open-access-spend-2013-14/>

Review of two years of SCOAP<sup>3</sup>

## IV. Compliance

# Article compliance is not a given



## The Reckoning: An Analysis of Wellcome Trust Open Access Spend 2013-14

3 MAR, 2015

by Wellcome Trust

tags: Data, Journals, Open Access, Open data, policy, Publishing, Robert Kiley

	2013-14
Number of articles for which an APC was paid	2556
Total spend on APCs	£4,694,428
Average APC	£1837
Median APC	£1800

### CC-BY and Europe PMC deposit: compliance

Basic compliance	Number	%
Articles for which an APC has been paid	2556	100%
Number of these articles available via Europe PMC as full text (as of 1 <sup>st</sup> February 2015)	2221	87%
Number of these articles NOT available as full text in Europe PMC	335	13%
Licence compliance		
Number of articles with a CC-BY (or CC-0) licence:	1679	66%
Number of articles with other licence (or no licence)	877	34%
Full compliance		
Total number of papers with full text in Europe PMC, and CC-BY licence	1565	61%

13% of articles not in repository

Only 66% with CC-BY

Only 61% fully compliant

5% not even OA on publisher site

### Analysis of articles not avail. in Europe PMC

Analysis	Number	Percentage
Total Number of articles not in Europe PMC	335	100
Duplicate articles identified in the dataset supplied by Institutions	3	<1%
Total number of articles which could be found (via Google and a DOI/title search) but are not in Europe PMC	325	97%
Of those 325 papers we could find:		
OA on the publisher site	308	95%
Not OA on the publisher site	17	5%
Of those 308 papers which are OA on the publisher site:		
Early View/Ahead of Print	71	23%
Final published version	237	77%

# Central operation guarantees for compliance...



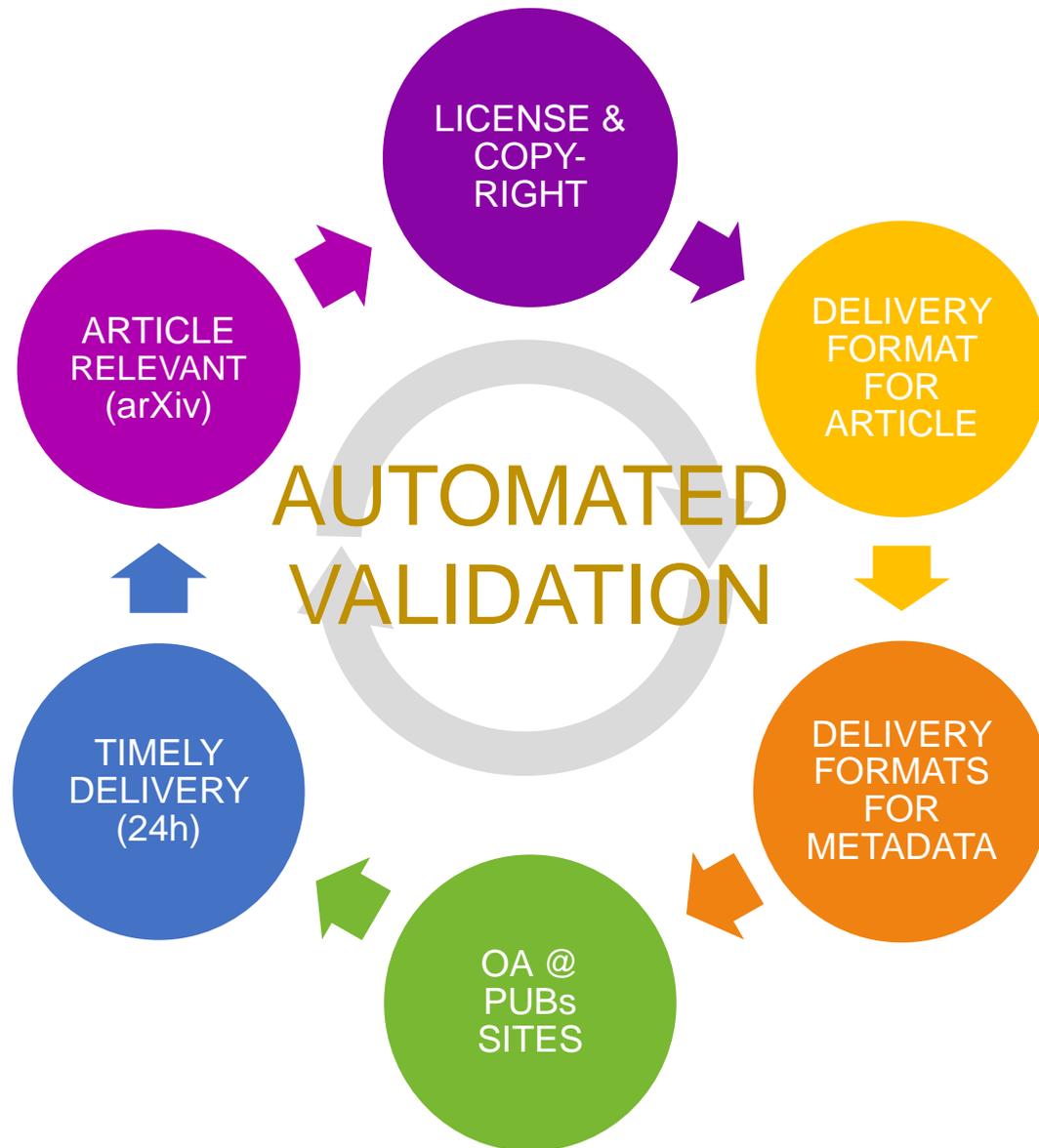
11  
Publishers



47  
Countries

3'000 Libraries

# ...via weekly compliance checks!



99.98%



*Scenes from a small country*

Some thoughts on being a  
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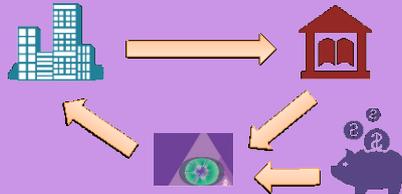
# SCOAP<sup>3</sup> in Norway

- CRISStin is both the national CRIS and also manages license agreements on behalf of Norwegian research libraries
- High Energy Physics not a big field in Norway
- Less research output than comparable countries (e.g. DK, FI)
- CRISStin is the signatory for the MoU
- Last pull from the SCOAP<sup>3</sup> repository showed 184 records with Norwegian affiliation of a total of 8,424 records
- Working with the SCOAP<sup>3</sup> API to pull the articles to CRISStin and disseminate them to the repositories
- CRISStin pays Norway's share of SCOAP<sup>3</sup>
- Publishers deduct SCOAP<sup>3</sup> journal costs from their central invoices to CRISStin
- CRISStin adds proportional costs to invoices sent to institutions

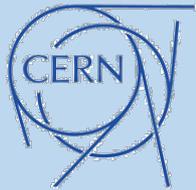
# Benefits and challenges

- Growing interest in OA
- Still immature market  
*How will publishing economy develop?*
- SCOAP<sup>3</sup> one economy model to learn from
- Excellent service from CERN  
*Their expertise valuable to reuse in other offset deals*
- Great to be part of a truly international consortium!
- Good networking to be reused
- Complex model
- Dedication and costs from NCPs
- Truly awful reconciliation model before start-up
- Hard to reach out to the physics community

# What distinguishes SCOAP<sup>3</sup> from other OA models?



Collaboration between libraries, researchers,  
funding agencies and publishers



Central and efficient  
operation



Reuse of available  
subscription money



OA for established,  
high-quality journals



No costs and no barriers for scientists

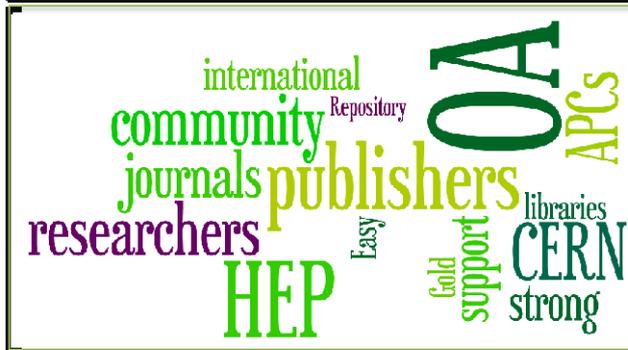
# SCOAP<sup>3</sup> to continue?

Q1 2015

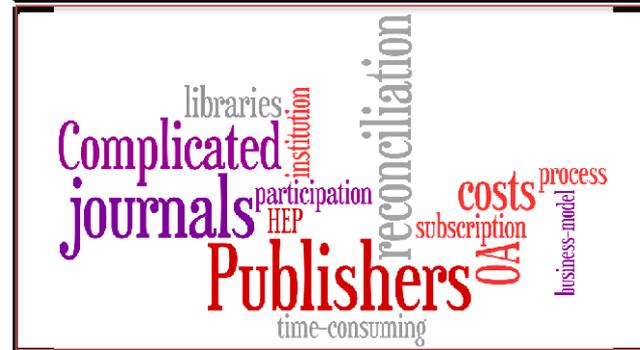
## SWOT analysis to assess the status

- Strong response and engagement from SCOAP<sup>3</sup> community
- More than 300 Strengths, Weaknesses, Opportunities & Threats identified

### Strengths



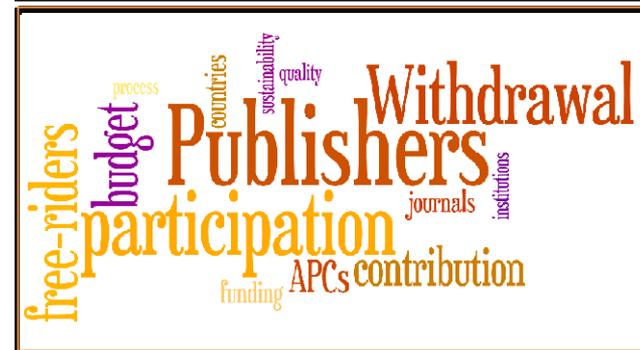
### Weaknesses



### Opportunities



### Threats



# SCOAP<sup>3</sup> Phase 2 (2017 – 2019)

Q1 2015

SWOT analysis by the SCOAP<sup>3</sup> Partnership

June 2015

SCOAP<sup>3</sup> governance agrees with extension to 2017-2019

Ongoing

Preparation of the continuation of SCOAP<sup>3</sup> initially with currently participating parties

*Thank you!*

*<http://scoap3.org>*

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