# Multi-source ingestion of publisher articles The SCOAP3 repository experience

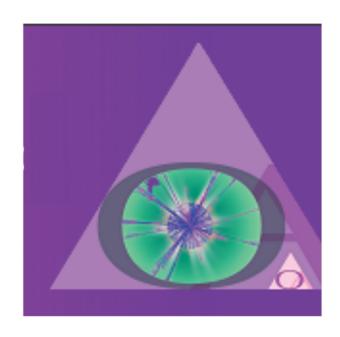


Wojciech Ziółek & Samuele Kaplun CERN, SCOAP3

Open Repositories, Helsinki 2014

### **AGENDA**

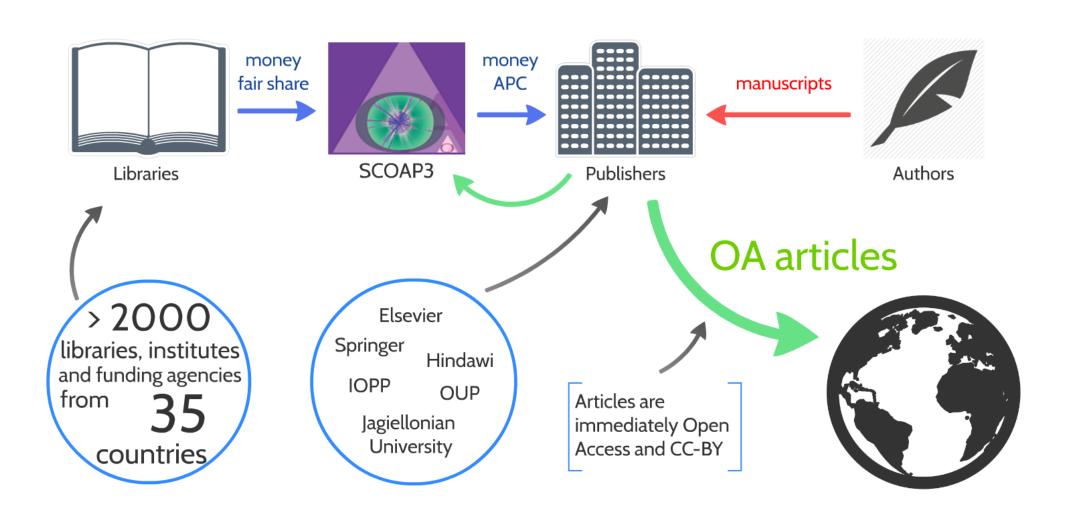
- SCOAP3
  - What is it?
  - How does it work?
- Mission of the repository
- Software
  - Software base
  - Content ingestion
  - Compliance checks
  - Future development
- Summary



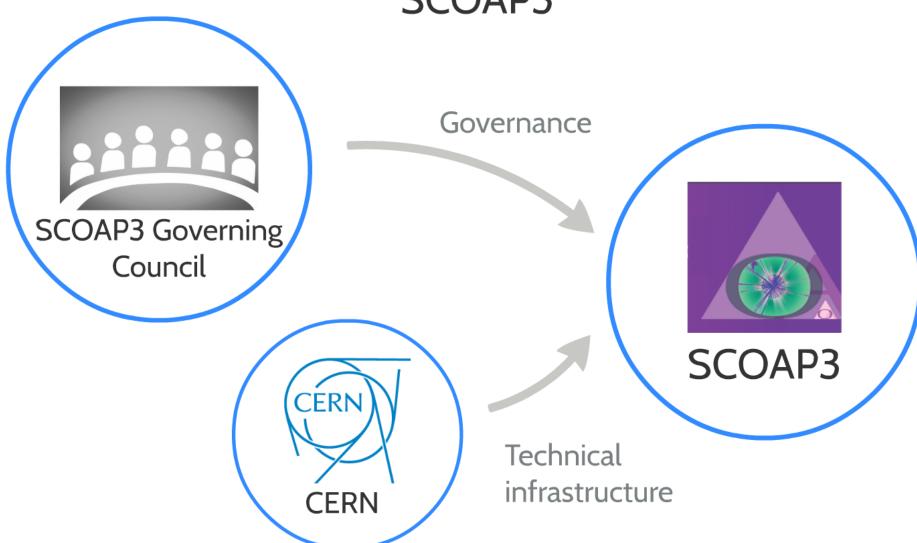


Sponsoring Consortium for Open Access Publishing in Particle Physics

### **HOW DOES IT WORK?**



## SCOAP3



#### SCOAP3

#### SCOAP<sup>3</sup> – Sponsoring Consortium for Open Access Publishing in Particle Physics

Sponsoring Consortium for Open Access Publishing in Particle Physics



Welcome

About SCOAP

Who is SCOAP

SCOAP3 Journal

News

SCOAP<sup>3</sup> Repository

Contact

#### Welcome

SCOAP<sup>3</sup> has <u>started in January 1st 2014</u>. These pages provide background information and news as we start operations. The first SCOAP<sup>3</sup> articles are already available and the SCOAP<sup>3</sup> Repository has launched in beta.

SCOAP<sup>3</sup> is a one-of-its-kind <u>partnership</u> of thousands of libraries and key funding agencies and research centers in two dozen countries. Working with leading publishers, SCOAP<sup>3</sup> is converting <u>key journals</u> in the field of High-Energy Physics to Open Access at no cost for authors. SCOAP<sup>3</sup> is centrally paying publishers for the costs involved in providing Open Access, publishers in turn reduce subscription fees to their customers, who contribute to SCOAP<sup>3</sup>. Each country participate in a way commensurate to its <u>scientific output in this field</u>. In addition, existing Open Access journals are also centrally supported, removing any existing financial barrier for authors.

As a result, articles are Open Access, the copyright stays with the authors, permissive CC-BY license allow text- and data-mining applications.

SCOAP3 is looking forward to establishing further partnerships worldwide. Scientists will freely enjoy the advantages of Open Access: their libraries and institutions can make this happen.

Search .

#### Recent news

SCOAP<sup>3</sup> Repository Launches in Beta

<u>First SCOAP<sup>3</sup> articles available.</u> <u>Open Access.</u>

SCOAP3 to start on 1 January 2014!

SCOAP<sup>3</sup>, publishers and libraries are finalising subscription reductions

SCOAP<sup>3</sup> moves forward.

http://scoap3.org/

# SCOAP3 repository



#### Search 1,806 records for:

any field Search

Advanced Search

#### Narrow by journal or click on a journal name to browse all articles:

- Acta Physica Polonica B (Jagiellonian University) (6)
- Advances in High Energy Physics (Hindawi) (106)
- Chinese Physics C (IOPP/CAS) (7)
- **▼** European Physical Journal C (Springer/SIF) (231)
- Journal of Cosmology and Astroparticle Physics (IOPP/SISSA) (91)
- Journal of High Energy Physics (Springer/SISSA) (821)
- New Journal of Physics (IOPP/DPG) (none yet)
- Nuclear Physics B (Elsevier) (134)
- Physics Letters B (Elsevier) (383)
- Progress of Theoretical and Experimental Physics (OUP/JPS) (27)

#### Welcome to the SCOAP<sup>3</sup> repository.

Here you can freely search, browse and of course download all Open Access articles sponsored by the international SCOAP<sup>3</sup> initiative.

In the coming months, and as more articles become available, we will make available tailored feeds of metadata and articles. We will also provide SCOAP<sup>3</sup> participating libraries API access.

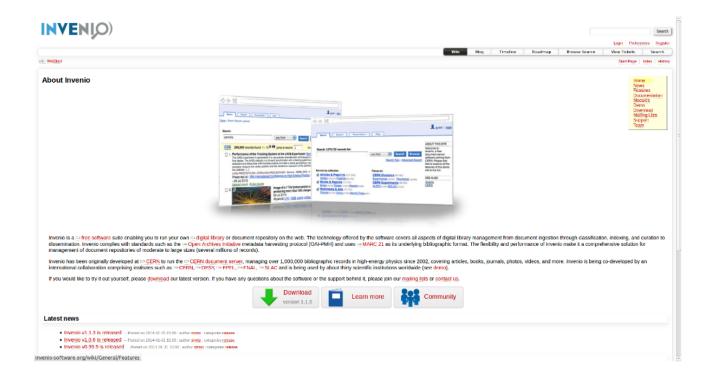
For information on SCOAP<sup>3</sup>, and how to join, please visit <u>scoap3.org</u>.

Powered by Invenio v1.1.2.963-fef14 Maintained by repo.admin@scoap3.org Last updated: 07 Jun 2014, 13:18

Articles in the SCOAP3 repository are released under a <a href="CC-89">CC-89</a> license. Metadata are provided by the corresponding publishers and released under the <a href="CC0">CC0</a> waiver.

http://repo.scoap3.org/

### **CODEBASE**



SCOAP3 is based on Invenio Software.

### **DEVELOPMENT**

github social coding

https://github.com/SCOAP3

SCOAP3 - specific development on top of Invenio

Compliance checks



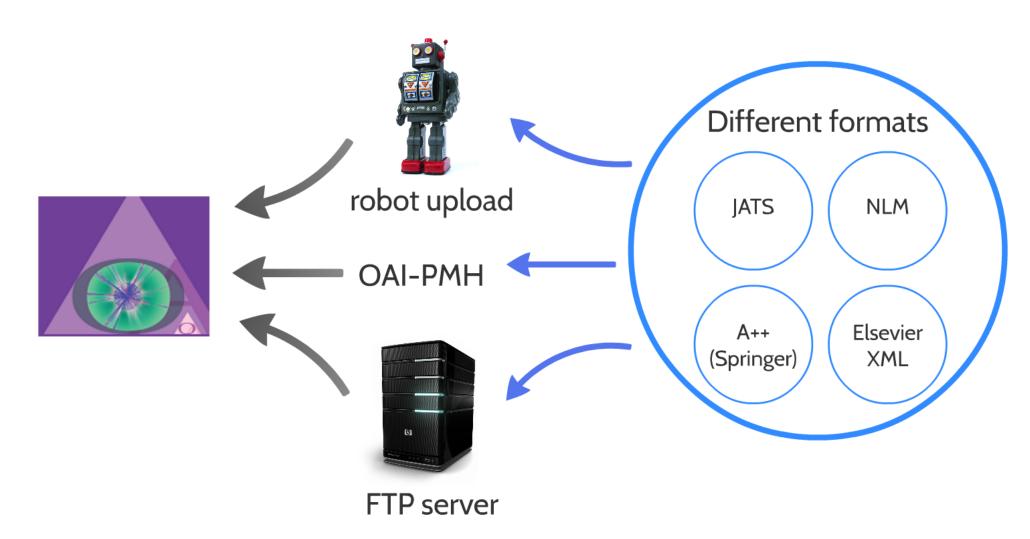
Content ingestion



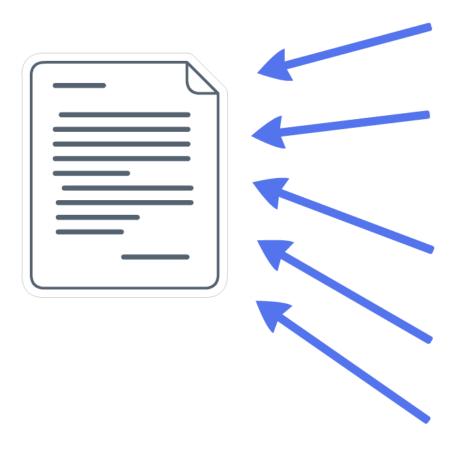
Export services



### **CONTENT INGESTION**



### **COMPLIANCE CHECKS**



Integrity of delivered files

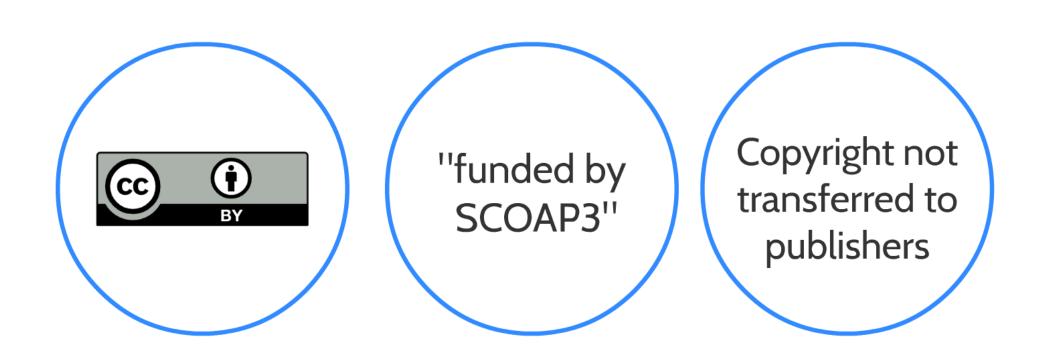
PDF Open Access on Publishers' sites

Immediate (within 24 hours) availability

Metadata

**Open Access conditions** 

### **OPEN ACCESS CONDITIONS**



#### **EXAMPLE: VERIFICATION OF OA CONDITIONS**

© The Author(s) 2014. Published by Oxford University Press on behalf of the Physical Society of Japan.

This is an Open Access article distributed under the terms of the Creative Commons Attribution License (http://creativecommons.org/licenses/by/3.0/), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

Funded by SCOAP<sup>3</sup>

Copyright © 2014 S. Hassanabadi and M. Ghominejad. This is an open access article distributed under the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited. The publication of this article was funded by SCOAP<sup>3</sup>.

Funded by SCOAP<sup>3</sup> under Creative Commons License, CC-BY-NC 3.0.

0550-3213/© 2014 The Author. Published by Elsevier B.V. This is an open access article under the CC BY license (http://creativecommons.org/licenses/by/3.0/). Funded by SCOAP<sup>3</sup>.

Open Access, © The Authors. Article funded by SCOAP<sup>3</sup>.

Different versions of Open Access conditions

# **EXAMPLE: VERIFY CONSISTENCY WITH PUBLISHERS' SITE VERSION**

#### Meson decays in an extended Nambu-Jona-Lasinio model with heavy quark flavors

DENG Hong-Bo(邓红波) CHEN Xiao-Lin(陈晓林) DENG Wei-Zhen(邓卫真)1) School of Physics and State Key Laboratory of Nuclear Physics and Technology, Peking University, Beijing 100871, China

Abstract: In a previous work, we proposed an extended Nambu-Jona-Lasinio (NJL) model including heavy quark flavors. In this work, we will calculate strong and radiative decays of vector mesons in this extended NJL model including light ρ, ω, K\*, φ and heavy D\*, D\*, B\*, B\*,

Key words: NJL model, heavy meson, heavy quark limit

PACS: 12.39.Fe, 12.39.Hg, 14.40.-n DOI: 10.1088/1674-1137/38/1/013103

#### 1 Introduction

original form as a pre-QCD theory, was constructed of sector. nucleons that interact via an effective two-body contact light quark flavors in Refs. [5-9].

of the order  $1/m_Q$  of the spin-spin interaction in the ef-fective quark potential [11]. In Ref. [12], the NJL model heavy mesons were smaller than the experimental val-ues, roughly by a factor of 2. was generalized to include heavy flavors. Both the chiral The strong and radiative decays provide us with imsymmetry in the light meson sector and the spin symme- portant information about hadron structure. Experitry in the heavy meson sector were reproduced with the mentally, the decay widths of light vector mesons have was used there to obtain an effective Lagrangian of the ratios of the charmed and bottom heavy vector mesons meson degrees of freedom.

However, as already shown in Ref. [5], the vectorcurrent interaction only is not enough to reproduce the — to fit the experimental values of the decay width or raexperimental masses of light vector mesons, such as  $\rho$ , tio. The most popular model for strong decay is the  $^3P_0$ K\* etc. Other chiral symmetrical interactions, such as model [23, 24]. This model has been applied to a great the axial-vector-current one, are needed to get satisfac-number of decay processes [25-28]. The radiative detory results for the light meson sector. However, these cays, mainly the M1 transition, which takes place when additional interactions do not obey the spin symmetry — one of the constituent quark changes its spin and rain the heavy meson sector since they generate the incorrect spin-spin interaction that is not  $1/m_Q$  suppressed. models [29, 30] or from flavor symmetry [31]. For decays

In the above work [12], the authors just introduced two coupling constants  $G_1$  and  $G_2$  for the light meson sector The Nambu–Jona-Lasinio (NJL) model [1, 2], in its and another different coupling  $G_3$  for the heavy meson

In our previous work [13], we proposed a solution interaction. The model was later reinterpreted as a theory of quark degrees of freedom [3, 4]. The most important feature of the NJL model is the chiral symmetry of spect to  $1/m_t$  of constituent quark mass  $m_t$ , just like the the Lagrangian plus a chiral symmetry breaking ground expansion in the heavy quark effective theory (HQET). state. The model was generalized to the  $SU(3)_i$  case of Naturally, the vector-current interaction is dominant while other interactions, such as the typical axial-vector-On the other hand, for heavy quark flavors, the chi-current one, should be  $1/m_t$  suppressed. We had perral symmetry no longer holds. However, new important formed numerical calculations for both the light and symmetries, such as the spin symmetry that was discov- heavy meson sectors. The mass spectra fit the exered in heavy (Qq)-mesons [10], which is a consequence perimental data quite well. The decay constants of

vector-current interaction. The bosonization technique been well measured [14–19] and so far, some decay widths have been reported [20-22].

Generally speaking, it is a rigid test for any model

Received 19 April 2013, Revised 10 September 2013

1) E-mail: dwz@pku.edu.cn

Content from this work may be used under the terms of the Creative Commons Attribution 3.0 licence. Any further of this work must maintain attribution to the author(s) and the title of the work, journal citation and DOL Article funded



iopscience.iop.org

Home Search Collections Journals About Contact us My ICPscience

Meson decays in an extended Nambu-Jona-Lasinio model with heavy quark flavors

This content has been downloaded from IOPscience. Please scroll down to see the full text 2014 Chinese Phys. C 38 013103

(http://lopscience.lop.org/1674-1137/38/1/013103)

View the table of contents for this issue, or go to the journal homepage for more

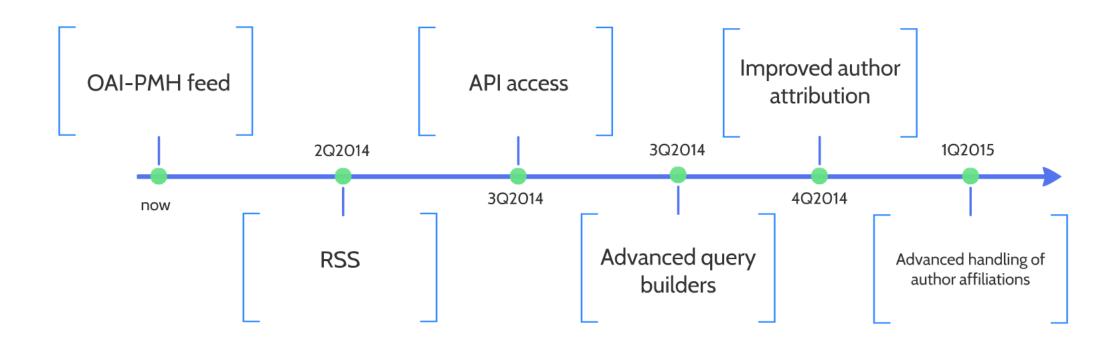
Download details:

IP Address: 89.3.178.157 This content was downloaded on 24/05/2014 at 08:29

Please note that terms and conditions apply

Text downloaded from publishers' site can have cover pages.

### **FUTURE DEVELOPMENT**



#### **SUMMARY**

- Very interesting Open Access experiment and full collaboration with 6 publishers.
- Still, very different standards and lots of hard work.
- Data cleaning and large-scale automatic checks are hard.
- Looking forward to opening OAI-PMH feeds and other services for third parties to reuse this content.

info@scoap3.org