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European Organization for Nuclear Research

Organisation Européenne pour la Recherche Nucléaire

Le Service d'Information Scientifique

Purposes

1. The Organization shall provide for collaboration among European States in nuclear research of a pure scientific and fundamental character, and in research essentially related thereto. The Organization shall have no concern with work for military requirements and the results of its experimental and theoretical work shall be published or otherwise made generally available.

Convention establishing a European Organization for Nuclear
Research, 1953

CERN Onboarding 2019

Tullio Basaglia, RCS-SIS



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La mission du SIS:

- Le Service d'information scientifique du CERN a pour mission de gérer, conserver et diffuser efficacement l'information scientifique afin de la rendre accessible et utilisable pour le CERN et pour la communauté mondiale de la physique des hautes énergies.
- 4 domaines d'activité: la Bibliothèque, la base de données INSPIRE, les Archives, l'Open Science

La Bibliothèque :

- Assure que l'information scientifique produite au CERN soit préservée et généralement accessible
- Distribue les publications CERN (“Rapports jaunes”, CERN Courier, publications du Particle Data Group)
- Donne accès aux ressources d'information dans tous les domaines d'intérêt pour le CERN: physique, informatique, mathématiques, ingénierie, gestion



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Notre offre:

- 150,000 livres et comptes rendus de conférences, dont 100,000 en format électronique
 - 2,000 journaux en ligne
 - 13,500 normes techniques
- CERN Document Server: c'est là que vous trouvez ce que nous avons en stock: cds.cern.ch
- Accessible de partout dans le monde – consultez les instructions ici: <http://library.cern/resources/remote>
- « Acquisition guidée par le lecteur » : suggérez des nouvelles acquisitions: <http://library.cern/services/suggest>



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(E)books and proceedings

Title	How mathematicians think : using ambiguity, contradiction, and paradox to create mathematics
	
Author(s)	Byers, William
Imprint	Princeton, NJ, Princeton Univ. Press, 2007. - 415 p.
Price(s)	25.00CHF
	Purchase from CERN Bookshop ← Purchase
Subject category	Mathematical Physics and Mathematics
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- Le **Bookshop** est à votre disposition dans les locaux de la Bibliothèque
 - Vous pouvez acheter un livre pour vous ou pour votre groupe
 - Paiement par carte de crédit ou cash ou budget code (EDH)
 - Nous achetons n'importe quel livre pour vous (aussi des titres qui ne sont plus en stock chez l'éditeur)

1-10-25 10:44

LHC / Ginter, Peter
Baden : Lammerhuber, 2011. - 264 p.
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Buy	SCEM Code	Unit	Unit Price	Stock	Expected Delivery	Direct Delivery	Title
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•Prêt entre bibliothèques

- Livres, articles, normes, thèses...: nous pouvons les obtenir pour vous!
- Gratuit, rapide (il faut quelques heures pour un article en PDF)
- Taux de réussite très élevé (>95%)



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INSPIRE:

CERN, DESY, Fermilab and SLAC have built the next-generation High Energy Physics (HEP) information system, INSPIRE. It combines the successful SPIRES database content, curated at DESY, Fermilab and SLAC, with the Invenio digital library technology developed at CERN. INSPIRE is run by a collaboration of CERN, DESY, Fermilab, IHEP, IN2P3, and SLAC, and interacts closely with HEP publishers, arXiv.org, NASA-ADS, PDG, HEPDATA and other information resources.



*Institute of High Energy Physics
Chinese Academy of Sciences*



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CERN Onboarding
2019

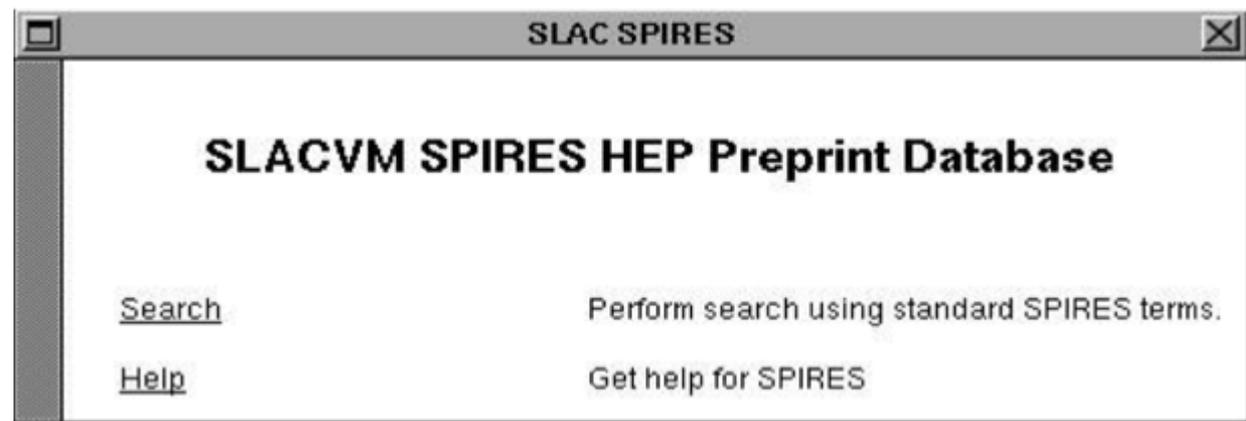


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INSPIRE:

1991: First website in North America (after the Web was born at CERN)



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In 2019, we launched INSPIRE beta to replace the current INSPIRE in 2020.

Visit <https://beta.inspirehep.net/> and send us your feedback!

The screenshot shows the INSPIRE HEP search interface. At the top, there is a search bar with the text 'literature' and 'author Hawking, S'. To the right of the search bar are buttons for 'Submit', 'Tools', and 'Help'. Below the search bar, the results are displayed. On the left side, there is a 'Date' histogram showing the distribution of publications from 1965 to 2018, and a 'Number of authors' filter set to '10 authors or less' with a count of 239. The main results area shows 239 results, with a 'cite all' button and a 'Most Recent' dropdown menu. The first result is titled 'Black Hole Entropy and Soft Hair' by Sasha Haco, Stephen W. Hawking, Malcolm J. Perry, and Andrew Strominger, published in JHEP 12 (2018) 098. The second result is titled 'Should China build the Great Collider?' by Stephen Hawking and Gordon Kane.



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INSPIRE and CDS: what is the difference?

- INSPIRE covers HEP literature worldwide (mainly articles and preprints)
- CERN Document Server focuses on CERN output and provides access to the collections of the Library and to the Bookshop's stock



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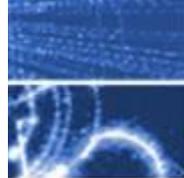
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The Archive:

The CERN Archive is a repository for historical records about all aspects of CERN's activities, from the creation of CERN until the present day. The CERN Archive includes files of letters, memos, reports, notes and other documents created or received in the course of their duties by former Directors-General and other senior staff, by the CERN Council and subordinate Committees, by CERN Departments, and by selected Experiments and Committees. In addition to the CERN fonds, it also contains the Wolfgang Pauli Archive, a collection of correspondence, manuscripts and other material representing the scientific legacy of Wolfgang Pauli (Nobel Laureate, 1945). See: <http://library.cern/archives>



Dear Radioactive Ladies and Gentlemen,



As the bearer of these lines, to whom I graciously ask you to listen, will explain to you in more detail, because of the "wrong" statistics of the N- and Li-6 nuclei and the continuous beta spectrum, I have hit upon a desperate remedy to save the "exchange theorem" (1) of statistics and the law of conservation of energy. Namely, the possibility that in the nuclei there could exist electrically neutral particles.

OFF
Gauvereins-Tagung

Abschrift

Physikalisches Ins-
der Eidg. Technisc
Zürich

Liebe Radio

Wie der Uet
ansuhren bitte, I
angesichts der "fa
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verfallen um den
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Ich traue
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Radioaktive, mit
eines solchen Neu
lOmal grösseres D
gamma-Strahl.

Ich gebe s
wenig wahrscheinl
sie existieren, w
gestimmt und der
wird durch einen
Herrn Debye, beleuchtet, der mir kürzlich in Brüssel gesagt hat:
"0, daran soll man am besten gar nicht denken, sowie an die neuen
Steuern." Darum soll man jeden Weg zur Rettung ernstlich diskutieren.-
Also, liebe Radioaktive, prüfet, und richtet.- Leider kann ich nicht
persönlich in Tübingen erscheinen, da ich infolge eines in der Nacht
vom 6. zum 7. Dez. in Zürich stattfindenden Balles hier unabhkümlich
bin.- Mit vielen Grüßen an Euch, sowie an Herrn Baek, hier
untertänigster Diener

ges. W. Pauli

WESTERN UNION (109)
A. N. WILLIAMS
PRESIDENT

CLASS OF SERVICE
This is a full-rate Telegram or Cablegram unless its deferred character is indicated by a suitable symbol above or preceding the address.

SYMBOLS
DL = Day Letter
NL = Night Letter
LC = Deferred Cable
NLT = Cable Night Letter
Ship Radiogram

NZ252 INTL=CD STOCKHOLM VIA RCA 25 15 2020
PROFESSOR WOLFGANG PAULI PRINCETON UNIVERSITY=
=PRINCE TONNJR=
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PRIZE IN PHYSICS 1945 STOP LETTER FOLLOWS=
=WESTGREN SECRETARY.

1945

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

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WITH EXPECTED SIX
WE ARE HAPPY TO
NEUTRINOS FROM FISSION FRAGMENT
OF PROTONS OBSERVED CROSS SECTION AGREES WELL
TIMES TEN TO MINUS FORTY FOUR SQUARE CENTIMETERS
FREDERICK REINES AND CLYDE COWAN
BOX 1663 LOS ALAMOS NEW MEXICO



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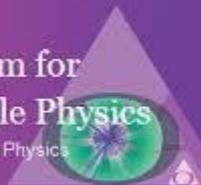
CERN Analysis Preservation

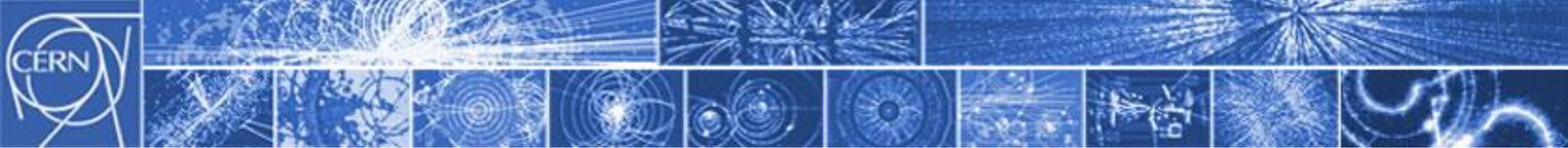
Open Science:

- SCOAP³: Sponsoring Consortium for Open Access Publishing in Particle Physics
- Freya: extending the infrastructure for persistent identifiers (PIDs)
- CAP: CERN Analysis and Preservation and REANA: REproducible research data ANalysis platform

SCOAP³ – Sponsoring Consortium for
Open Access Publishing in Particle Physics

Sponsoring Consortium for Open Access Publishing in Particle Physics





SCOAP³ – the largest Open Access initiative

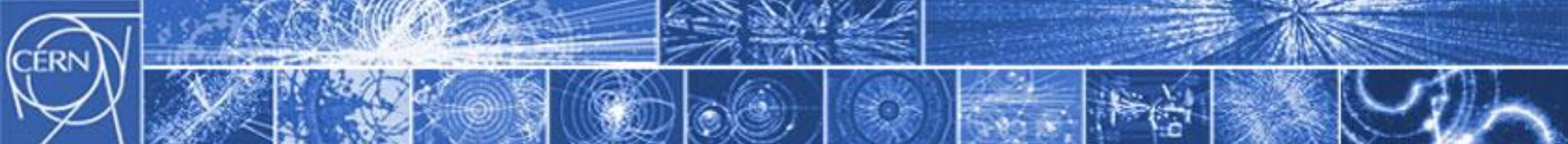
- SCOAP³ (Sponsoring Consortium for Open Access Publishing in Particle Physics) makes ~90% of HEP journal articles OA
- 3,000 partner libraries from 44 countries and 3 IGO's
- 7,000 articles/year in 11 journals
- Partner libraries redirect funds previously used to pay subscriptions
- CERN is host organization and contractual counterpart of all stakeholders



FREYA Project

- Connected Open Identifiers for Discovery, Access and Use of Research Resources
- 3-year project: 2017-2020, funded under Horizon 2020
- Extend the infrastructure for persistent identifiers (PIDs) as a core component of open global research
- Improve data discovery by extending and cross-linking PID core services, build on existing PID infrastructure (Crossref, DataCite, ORCID and identifiers.org).
- Extend potential of PIDs by designing, developing and delivering innovative services for data discovery, resource identification and provenance tracking.
- Integrate the PID Graph in disciplinary contexts and the European Open Science Cloud (EOSC) via disciplinary demonstrator systems.
- Sustaining an open and trusted PID e-infrastructure provision for the benefit of the research community within the EU and globally.





CERN Analysis Preservation – preserve the entire research process

- Platform that enables the High-Energy Physics community to preserve and share their research objects (data, code, notes,...)
- Piloted in collaboration with all the major LHC experiments
- Versioning of data & code, using the publishing draft/record model
- Integration with related scientific services and universal identifiers (i.e. ORCID, ROR)
- Ongoing integration with CERN services that support remote execution and reuse (e.g. REANA)

Full reproducibility mode please turn this mode on if you want to capture additional information about main and auxiliary measurements, systematic uncertainties, background estimates, final state particles

Basic Information
Please provide some information relevant for all parts of the Analysis here

Information from CADI database
Automatically taken from CADI, based on CADI ID

Input Data
Please list all datasets and triggers relevant for your analysis here

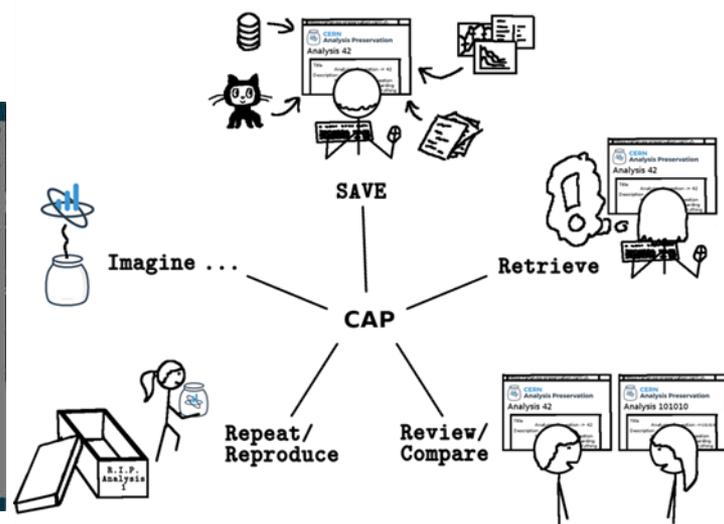
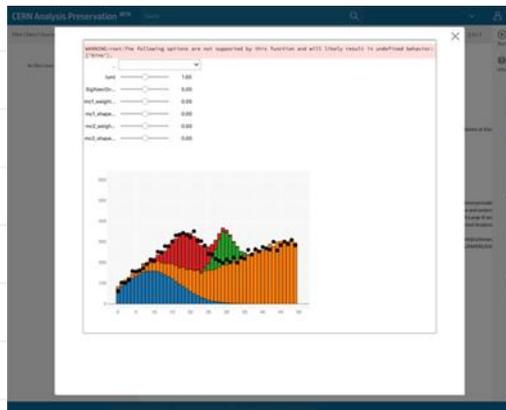
N-tuples Production [0 items]
Provide details on the intermediate n-tuples production

Auxiliary Measurements [0 items]
Provide details on auxiliary measurements used in the analysis

Background Estimation [0 items]
Details on the background estimation methods

Final Results
Please provide information necessary to generate final plots and tables for your analysis.

Main Measurements Workflows [0 items]
Please provide information about the main measurements of your analysis





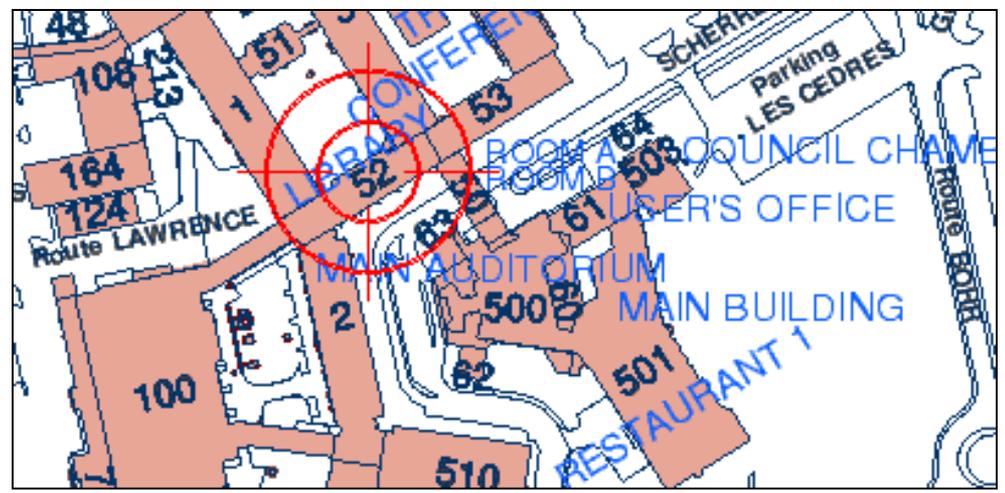
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Comment nous trouver?

La Bibliothèque et le Bookshop sont dans le bât. 52-1-052

- Tél.: 72444
- De partout dans le monde:
Web site: <http://library.cern>
CDS: <http://cds.cern.ch/>
Email: library.desk@cern.ch



- Ouvert 24h/24h, 7j/7j, 52/52 semaines
- Personnel présent: lundi-vendredi, 8h30-19h00
(8h30-18h00 du 1/1/2020)

Tullio Basaglia
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2019