



CERN

European Organization for Nuclear Research

Organisation Européenne pour la Recherche Nucléaire

Scientific Information Service

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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SIS' mission:

- CERN's Scientific Information Service aims at efficiently managing, preserving and disseminating scientific information to make it openly accessible and reusable to CERN and the worldwide HEP community.
- 4 areas of activity: The Library, the INSPIRE database, the Archive, Open Science



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The Library:

- Ensures that scientific information produced at CERN is safeguarded and made publicly available.
- Distributes CERN publications (yellow reports, CERN Courier, Particle Data Group publications)
- Provides resources of information in all fields of relevance to CERN: physics, IT, mathematics, engineering, management



What we offer:

- 150,000 books and conference proceedings, of whose 100,000 in electronic form
- 2,000 e-journals
- 13,500 technical standards
- CERN Document Server: this is where you find what we have: cds.cern.ch
- Accessible from everywhere in the world – check instructions here: <http://library.cern/resources/remote>
- User-driven acquisitions: suggest a new acquisition <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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 - Come and pay by credit card, cash or budget code (EDH)
 - We purchase any book on your behalf (also out of print titles)

2011-10-25 10:44

LHC / [Ginter, Peter](#)
Baden : Lammerhuber, 2011. - 264 p.
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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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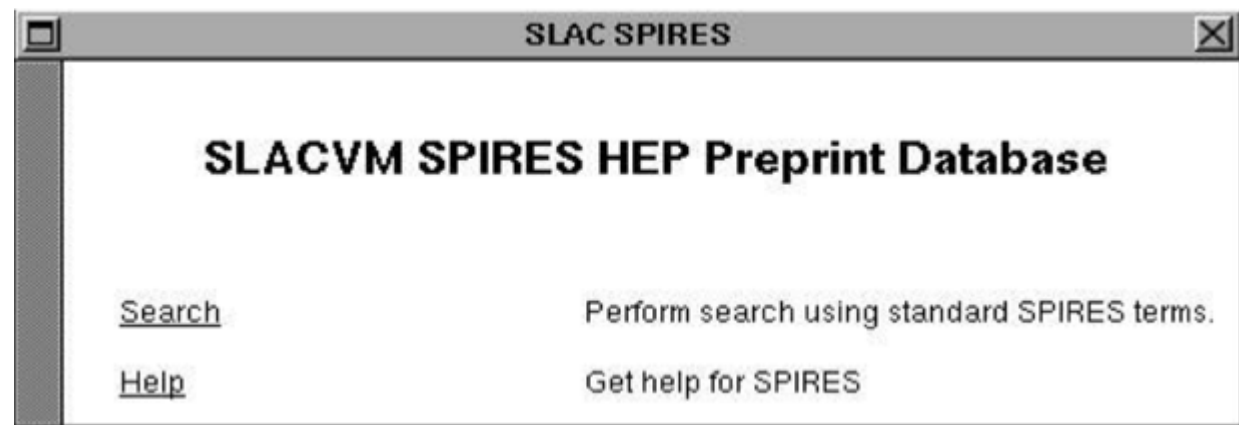


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INSPIRE:

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



*Institute of High Energy Physics
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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, the search bar contains 'literature' and 'author Hawking, S'. Below the search bar, there are 239 results. The first result is '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 'Should China build the Great Collider?' by Stephen Hawking and Gordon Kane. 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 239 results.

INSPIRE HEP

literature author Hawking, S

Submit Tools Help

239 results | cite all

Most Recent

Black Hole Entropy and Soft Hair #1

Sasha Haco (Cambridge U., DAMTP and Harvard U. and Radcliffe Coll.),
Stephen W. Hawking (Cambridge U., DAMTP and Harvard U. and Radcliffe Coll.),
Malcolm J. Perry (Cambridge U., DAMTP and Harvard U. and Radcliffe Coll.),
Andrew Strominger (Harvard U.) (Oct 3, 2018)

Published in: *JHEP* 12 (2018) 098 • e-Print: [1810.01847](https://arxiv.org/abs/1810.01847) [hep-th]

pdf DOI cite 40 citations

Should China build the Great Collider? #2

Stephen Hawking (Cambridge U., DAMTP), Gordon Kane (Michigan U., MCTP) (Apr 2, 2018)

Date

1965 2018

Number of authors

10 authors or less 239

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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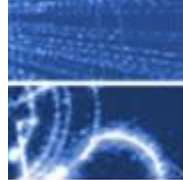
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The Archive:

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
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Ich traue
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eines solchen Neu
lokal 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 unabhkömmlich
bin.- Mit vielen Grüßen an Euch, sowie an Herrn Baek, Euer
untertänigster Diener

WESTERN UNION (109)
A. N. WILLIAMS
PRESIDENT

CLASS OF SERVICE
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SYMBOLS
DL = Day Letter
NL = Night Letter
LC = Deferred Cable
NLT = Cable Night Letter
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1945

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

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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

ges. W. Pauli



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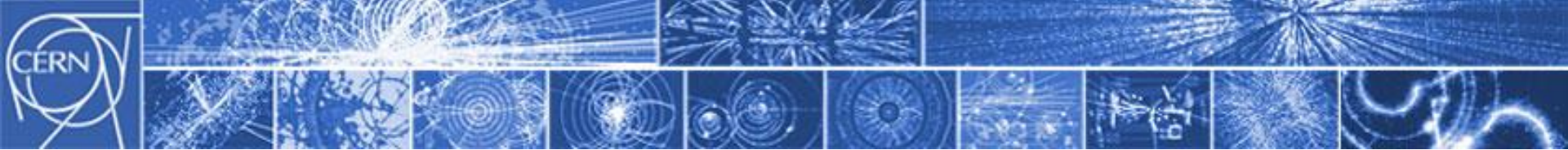
CERN Analysis Preservation

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

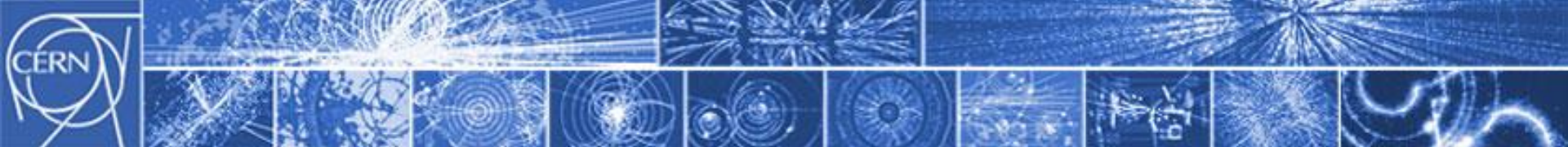
- SCOAP³ (Sponsoring Consortium for Open Access Publishing in Particle Physics) makes ~90% of HEP journal articles OA
- 3,000 partner libraries from 44 countries and 3 IGO's
- 7,000 articles/year in 11 journals
- Partner libraries redirect funds previously used to pay subscriptions
- CERN is host organization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

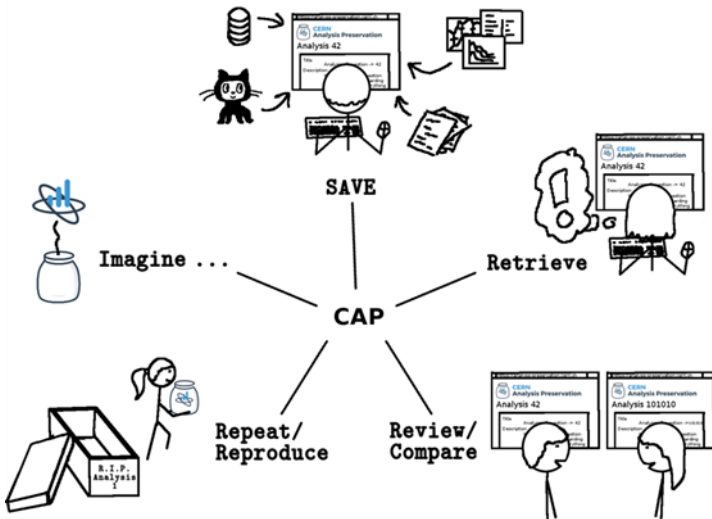
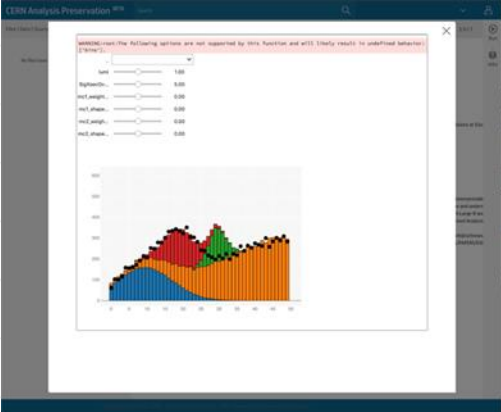
N-tuples Production [0 items]
Provide details on the intermediate n-tuples production

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



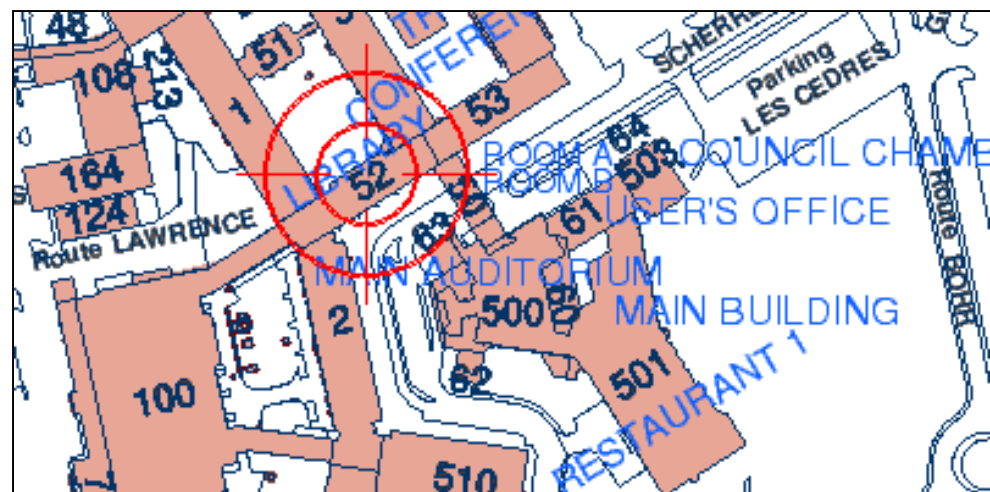


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- Phone: 72444
- From everywhere in the world:
 Web site: <http://library.cern>
 CDS: <http://cds.cern.ch/>
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- Open 24h/24h, 7days/7days, 52 weeks/52 weeks
- Staffed: Monday-Friday, 8h30-19h00 (8h30-18h00 from 1/1/2020)

Tullio Basaglia
CERN Onboarding
2019