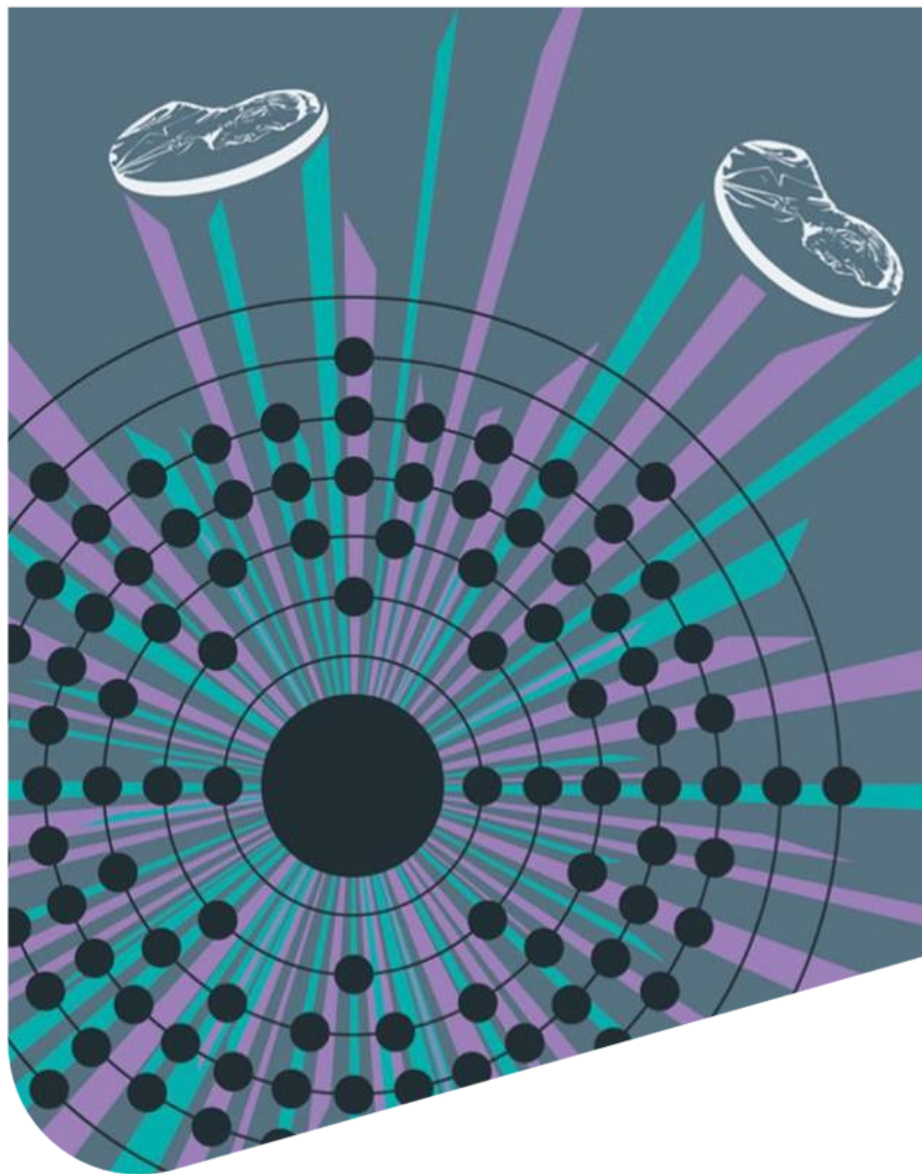


Illustration inspired by the work of Alfred Nobel



Christian Caron

FCCIS participation coordinator

FCC Week November 2020



**FUTURE
CIRCULAR
COLLIDER**

Expanding our Horizons



The Future Circular Collider Innovation Study (FCCIS) project has received funding from the European Union's Horizon 2020 research and innovation programme under grant No 951754.

Overview

- Springer Nature – some fast facts
- Own profile and interests
- Participation in FCCIS working packages
- Scientific dissemination on FCC projects since 2019
- General aspects of scientific/technical dissemination
- Specialized talks at this conference (FCC week)

Springer Nature – some fast facts

- > 10,000 employees in some 50 countries worldwide
- > 1 million article submissions per year
- > 300,000 articles published per year (ca. 30% open access)
- > 2,800 journals (ca. 600 fully open access)
- > 300,000 books (> 10,000 new books annually)
- > 1,000 open access books

Own profile and interests

Team Leader Journals – Physics Editorial Department at Springer

particle & nuclear physics, quantum physics, theoretical & mathematical physics, history of physics, complex systems

Member of the Steering Committee:

The European Physical Journal

Co-publication by Springer, EDPS and SIF

SAC: 25 national physical societies

Publishing Editor of SCOAP³ journals:

EPJC (SIF) and JHEP (SISSA)



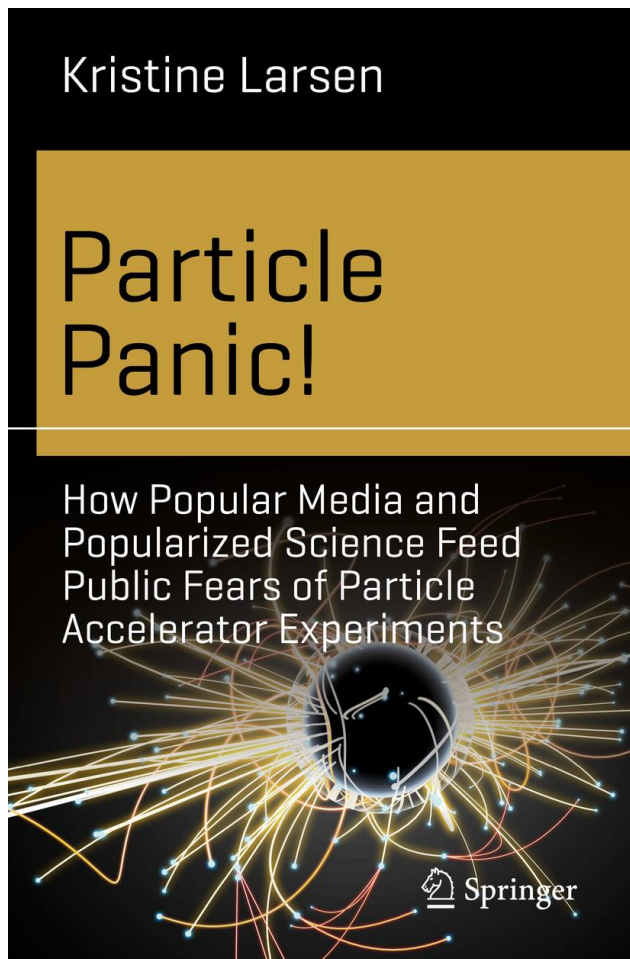
The screenshot displays the EPJ C website interface. At the top, there is a navigation menu with buttons for EPJ, A, B, D, E, AP, ST, H, PLUS, C, DS, PV, TI, QT, AM, N, WOC, and RNC. The main content area features a graph titled 'XENON1T-SS' and 'XENON1T-MS' showing data points and error bars. Below the graph, there is a section 'About EPJ' with a brief description of the journal. To the right, there is a 'Latest news' section with a featured article titled 'EPJ A Highlight - Emergence of nuclear rotation from elementary interactions between the nucleons', published on 16 October 2020. The article includes a small graph and a text snippet. On the far right, there is a search bar and a section for 'Open calls for papers' with a link to 'EPJ A Topical Issue: First joint gravitational wave and'.

Own profile and interests

Science and Fiction book series

~50% popular science level books

~50% novels written by scientists



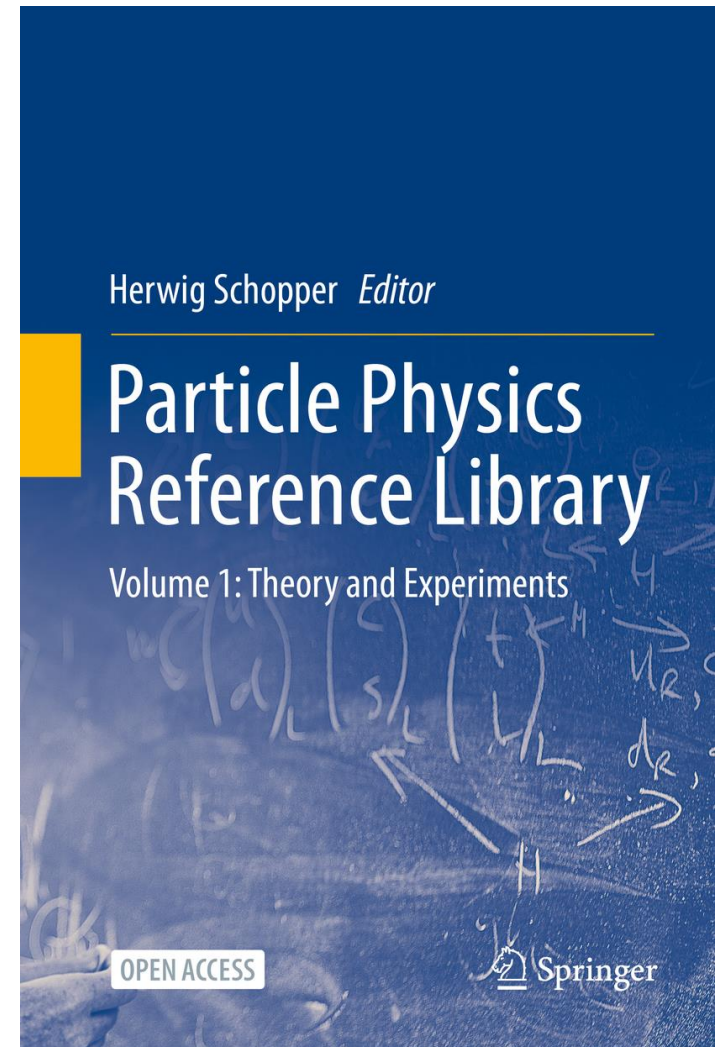
Particle Physics Reference Library

New, open access edition of a three volume handbook: Particle physics, Accelerator Physics, Detectors

Nov 24th:

<https://indico.cern.ch/event/970244/>

Herwig Schopper
Christian Fabjan
Stephen Myers



SPRINGER NATURE

Participation in FCCIS working packages

WP4 Impact & Sustainability

- Socio-economics impact analysis

Lead: Markus Kaindl, Senior Manager Data Development - Product and Platform Group

Identifying and tracking the dissemination of the relevant literature using the scholarly analytics platform *Dimensions* and the online conversation tracking tool *Altmetrics* in collaboration with Holtzbrinck's *Digital Science*.

WP5 Leverage & Engage

- Tools and Processes for massively collaborative writing of scientific documents

Lead: Katherine Arundell, Head of Innovation - Researcher Experience team

Design, in collaboration with Overleaf, of novel editing and publication workflows, specifically for large documents written by many authors simultaneously

- Technical & scientific dissemination of published content

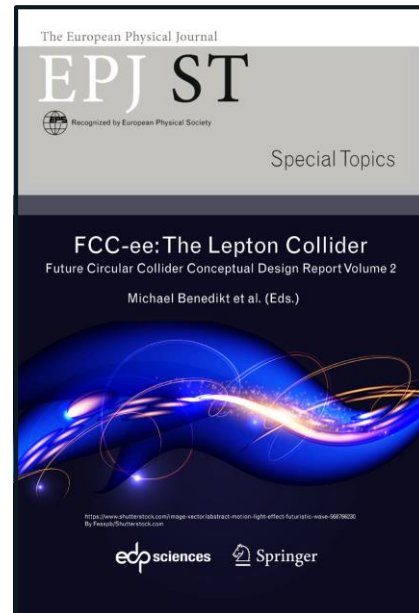
Lead: Christian Caron, Executive Publishing Editor, Physics Editorial Department

- Final design report(s) of FCCIS
- Material derived from FCC Weeks/Workshops/Physics Meetings

Scientific dissemination of FCC projects since 2019

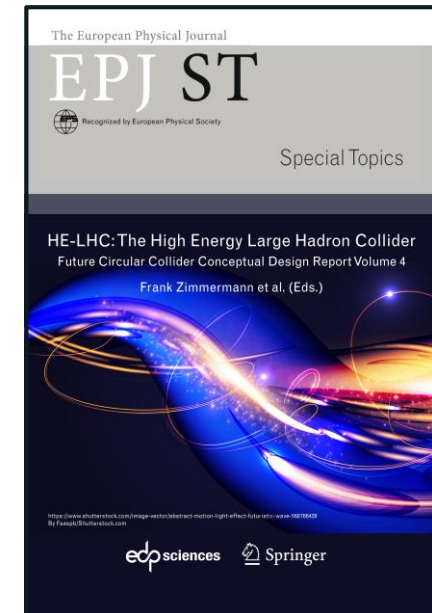
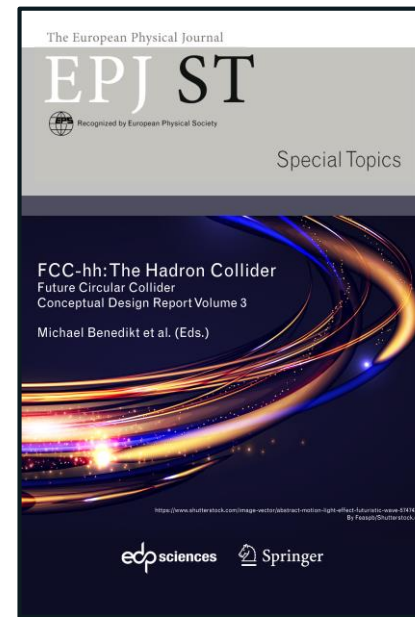
Physics Case & Conceptual Design Reports

Physics Case: Volume 1
Downloads: 9555
Citations: 85



FCC-ee: Volume 2
Downloads: 3845
Citations: 85

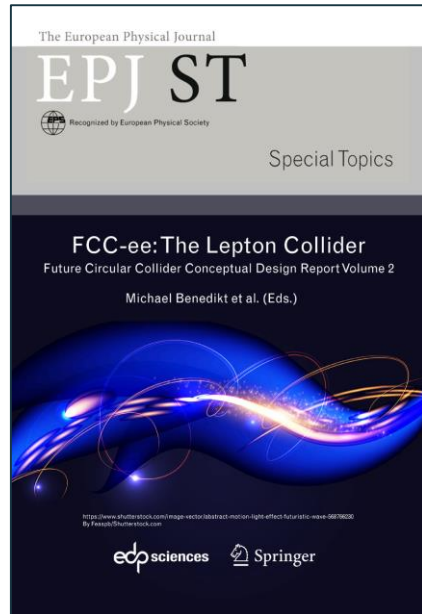
FCC-hh: Volume 3
Downloads: 3059
Citations: 95



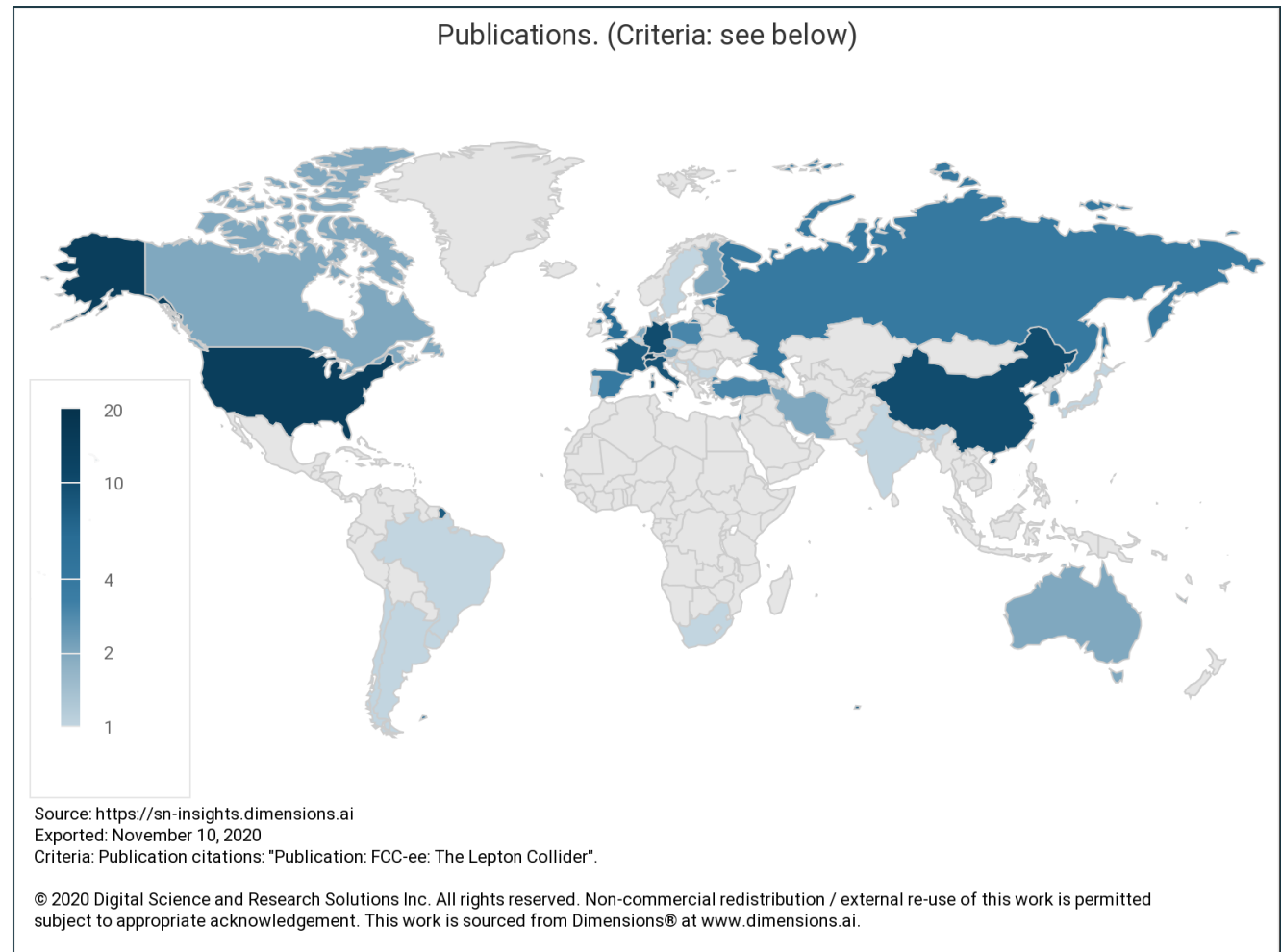
HE-LHC: Volume 4
Downloads: 1938
Citations: 42

Scientific dissemination of FCC projects since 2019

Physics Case & Conceptual Design Reports



FCC-ee: Volume 2
 Downloads: 3845
 Citations: 85



Scientific dissemination of FCC projects since 2019

Springer Nature publishes study for CERN's next generation circular collider



Conceptual design report outlines the designs for powerful particle colliders that can inaugurate the post Large Hadron Collider (LHC) – which discovered the Higgs boson in 2012 – era in high-energy physics.

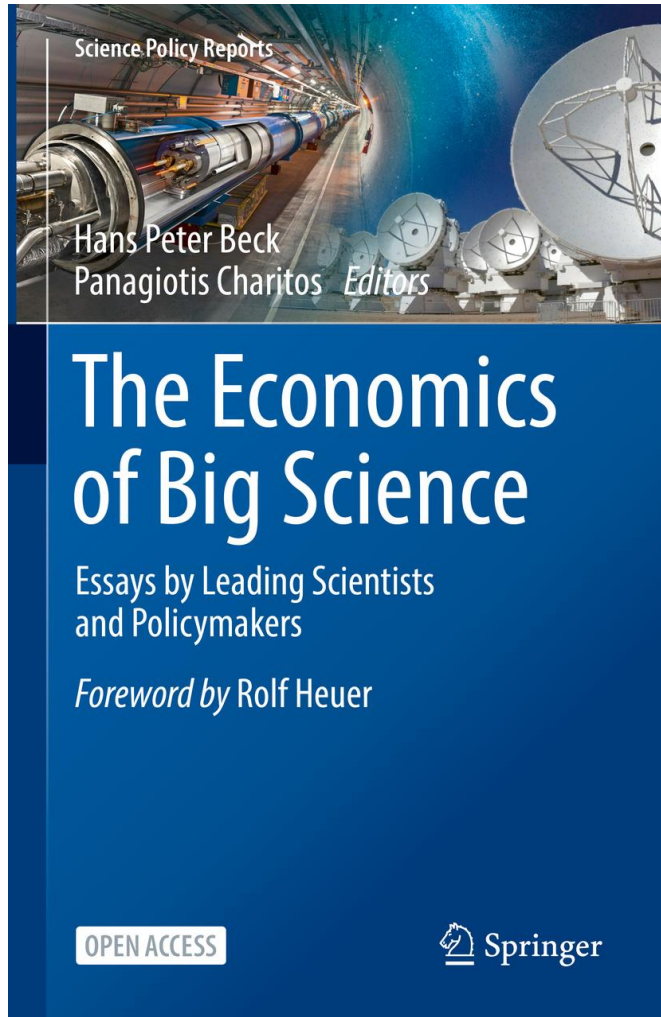
London, 25th July 2019

Back in January, CERN released a conceptual report outlining preliminary designs for a Future Circular Collider (FCC), which if built, would have the potential to be the most powerful particle collider the world over. Earlier this month attendees of the [2019 FCC week in Brussels](#) got the first look at what this could look like with the release of the four volume FCC study conceptual design report (CDR).

In a special ceremony, on the first day of the conference, Christian Caron (Executive Editor for the *European Physical Journal* (EPJ) at Springer Nature) handed over the four volumes to Fabiola Gianotti (CERN's Director General), Frédéric Bordry (CERN's Director of Accelerators & Technologies) and Michael Benedikt (FCC study leader).

SPRINGER NATURE

Scientific dissemination of FCC projects since 2019



Publication (31.10.2020) of the (open-access) book

The Economics of Big Science

Based on lectures given at the special session of the FCC Week 2019

Promotional message in particular to many experts from relevant OECD panels

Editorial | Published: 06 April 2020

Strategy for the future

Nature Physics **16**, 369(2020) | [Cite this article](#)

2129 Accesses | **10** Altmetric | [Metrics](#)

The impending update to the European Strategy for Particle Physics is an apt moment to chart the future of the field – a future that should be supported and ensured.

← **Tweet**



Springer Physics @SpringerPhysics · Oct 19

Register for the Future Circular Collider Innovation Study kick-off meeting: bit.ly/tw3jcir

Learn more about the technical, scientific and socio-economic impact of this major European infrastructure project.



Perspective | [Open Access](#) | Published: 06 April 2020

Future Circular Colliders succeeding the LHC

Michael Benedikt, Alain Blondel, Patrick Janot, Michelangelo Mangano & Frank Zimmermann [✉](#)

Nature Physics **16**, 402–407(2020) | [Cite this article](#)

2923 Accesses | **1** Citations | **3** Altmetric | [Metrics](#)

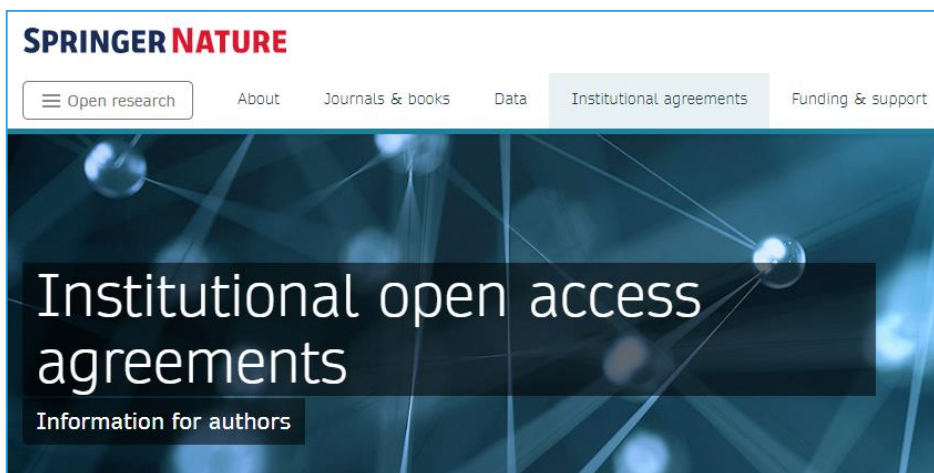
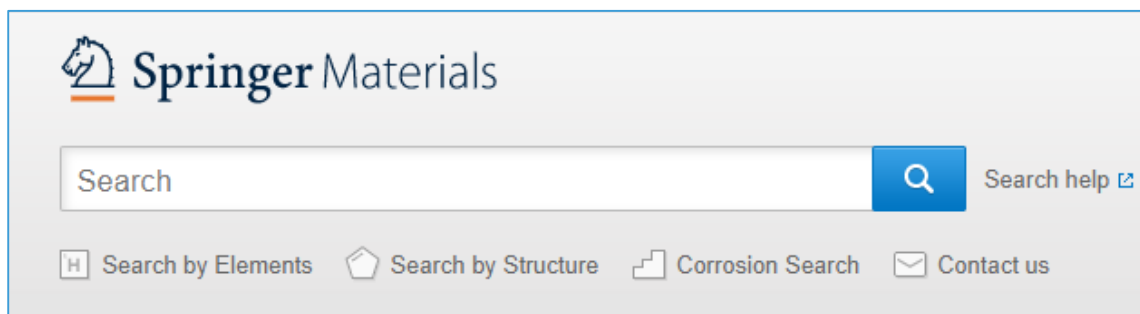
Abstract

Particle physics has arrived at an important moment of its history. The discovery of the Higgs boson has completed the Standard Model, the core theory behind the known set of elementary particles and fundamental interactions. However, the Standard Model leaves important questions unanswered, such as the nature of dark matter, the origin of the matter

General aspects of scientific/technical dissemination

What services can be routinely expected
...from a leading STM publisher such as Springer Nature

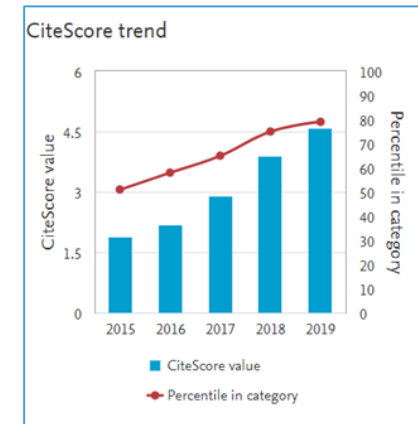
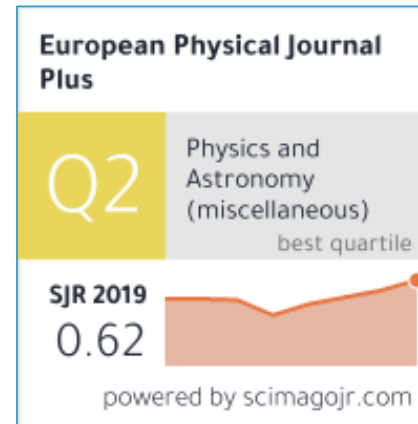
Professional editing and
release of suitable material
through branded journals,
book series and databases



Availability and accessibility of content
through distribution deals & open access

General aspects of scientific/technical dissemination

Discoverability and metrics:
through metadata and
abstracting & indexing databases



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3D virtual slicing of an antique violin reveals ancient varnishing methods

Physicists and chemists use 3D scanning to unlock the forgotten secrets of the multi-layered coating methods that give violins their exceptional tone and look

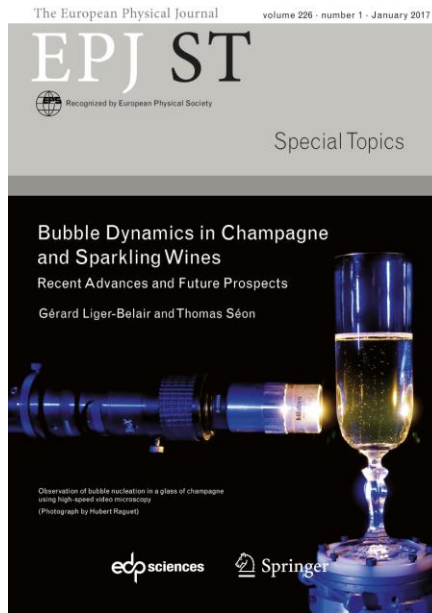
New York | Heidelberg, 25 January 2019

Italian violin-making masters of the distant past developed varnishing techniques that lent their instruments both an excellent musical tone and impressive appearance. Few records from this era have survived, as techniques were most often passed down orally to apprentices; only scarce information is available on the original methods used for finishing the instruments. In a new study published in *EPJ Plus*, Giacomo Fiocco, affiliated with both Pavia and Torino Universities in Italy, and his colleagues use the synchrotron facility in Trieste to develop a non-invasive 3D-scanning approach that yields insights into the main morphological features of the overlapping finishing layers used on violins. In turn, the morphological images can be used to



Marketing & PR
through newsletters, ToC alerts,
social media, research news,





Altmetric

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Effervescence in champagne and sparkling wines: From grape harvest to bubble rise

Overview of attention for article published in The European Physical Journal - Special Topics, January 2017

362

About this Attention Score

In the top 5% of all research outputs scored by Altmetric

SUMMARY News Twitter Dimensions citations

? So far, Altmetric has seen **44** news stories from **44** outlets.

Medium **The Origin Story of Champagne**
Medium US, 20 Mar 2020
Abbey Mar 20 · 4 min read At a time when it feels like there's not much to celebrate, check out how the drink of celebrations...

Newsweek **What your champagne bubbles can tell you about its quality**
Newsweek, 29 Dec 2017
It's almost New Year's Eve, which means it's time to celebrate with your favorite bubbly beverage.

Cooperating with relevant third-party service providers through data repositories, Publons, Orcid, Altmetrics, InReview, SharedIt,...



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New partnership with Springer Nature to make research more accessible

15/12/16 15:55 by Alan Hyndman

We're delighted to announce a new partnership with Springer Nature to support BioMed Central and SpringerOpen authors who wish to openly share their supplementary data.



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General aspects of scientific/technical dissemination

Where Springer Nature is a pioneering STM publisher:

Open Access transformation and ResearchGate Agreement

Transformative Read and Publish agreements

Partners

Austria

Finland

Germany

Hungary

Italy

Manipal

Netherlands

Norway

Poland

Qatar

Sweden

Switzerland

UK

Simple idea: transform subscription budget into a “read & publish” (open access) fee per paper (corresponding author from participating institutions)

(CERN is part of the Switzerland TRP / University of California next TRP in 2021)

Transformative Journals (suggested first by Springer Nature in May 2019)

Subset of hybrid journals made planS compatible by

- Actively promoting OA and committed to yearly increasing OA content
- Flip above 75% OA content
- Most hybrid/subscription Springer Nature journals to be submitted

SPRINGER NATURE



The Springer Nature / ResearchGate partnership

Researchers at the Centre: Content Discoverability, Visibility, and Access

Pilot started in 2019

Long term
collaboration as of
Q4 2020

In March 2019, Springer Nature and ResearchGate entered a unique partnership to explore new ways for researchers to share content. The goal was to combine Springer Nature's expertise in publishing high-quality research with ResearchGate's online platform of millions of scientists, and deliver a better experience for the communities served by both organisations.

Benefits for researchers

- Articles are brought directly to researchers on a platform they already use for networking and collaborative purposes.
- Researchers can be sure they are accessing the version of record (VoR) of an article rather than a previous draft or unauthorised version.
- The discoverability of articles on ResearchGate is improved, making it easier for researchers to find relevant content.

Benefits for authors

- On publication, Springer Nature automatically sends the VoR to ResearchGate who automatically upload it to their publication page so that authors do not need to do this themselves.
- Springer Nature content that is syndicated to ResearchGate shows increased 'reach' (usage and discoverability).
- The partnership removes the need for authors to upload drafts or to worry about breaching possible licensing agreements by uploading the VoR to ResearchGate .

SPRINGER NATURE

Specialized talks at this conference (FCC week)

WP5 Leverage & Engage Thursday 12th / 10h30:

EPJ Plus special issue: Overview and editorial workflows

WP5 Leverage & Engage Thursday 12th / 14h40:

Publishing of Proceedings - FCC week 2021 and beyond