

# *EPJ Research Infrastructures*

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Executive Publisher  
Springer | Physics Editorial Department

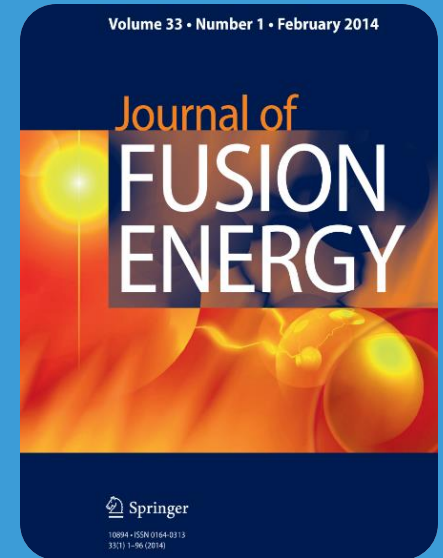
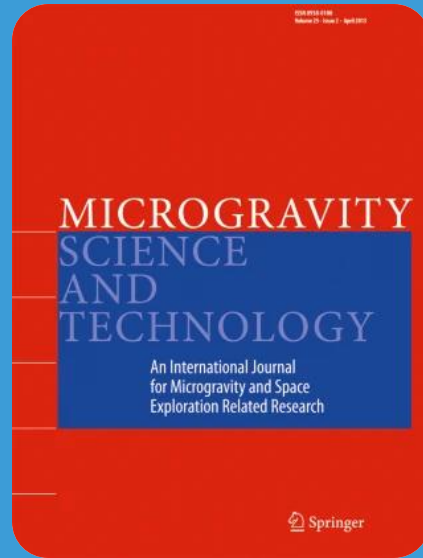
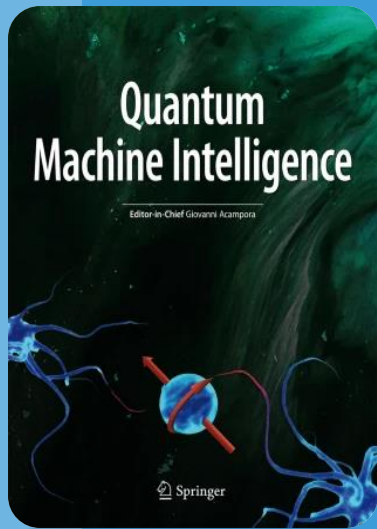



## **Team leader journals**





Nuclear & Particle Physics, Astrophysics & Space Science, Quantum Sciences & Technology, Interdisciplinary Topics & Complex Systems




**The European Physical Journal**  
Member of the Steering Committee




EPJ.org  NEWS ARCHIVES SCIENTIFIC ADVISORY COMMITTEE ABOUT OPEN ACCESS



**EPJ C**  
Particles and Fields

EPJ A B D E AP ST H PLUS  C DS PV TI QT AM N WOC RNC

# EPJ.org



The European Physical Journal volume 54 - number 2 - february - 2018

## EPJ A

Recognized by European Physical Society

### Hadrons and Nuclei

Topical Issue on Frontiers in Nuclear, Heavy Ion and Strong Field Physics edited by Tamás S. Biro, Carsten Greiner, Berndt Müller, Johann Rafelski and Horst Stöcker

Springer

The European Physical Journal volume 91 - number 2 - february - 2018

## EPJ B

Recognized by European Physical Society

### Condensed Matter and Complex Systems

From: The effect of size and composition on structural transitions in monolayered transparentities by K. Razi et al.

edp sciences Springer

The European Physical Journal volume 78 - number 1 - january - 2018

## EPJ C

Recognized by European Physical Society

### Particles and Fields

Energy spectra measuring the experimental cross-sections for the first time compared to the theoretical calculations for the production of  $\mu^+\mu^-$  pairs in the  $2000-3000$  MeV energy range by A. C. J. Silva et al.

Springer

The European Physical Journal volume 72 - number 1 - january - 2018

## EPJ D

Recognized by European Physical Society

### Atomic, Molecular, Optical and Plasma Physics

From: A study on the performance of an experimentally based model for the prediction of the electron density in a laser-plasma interaction by C. L. J. Silva et al.

edp sciences Springer

The European Physical Journal volume 41 - number 2 - february - 2018

## EPJ E

Recognized by European Physical Society

### Soft Matter and Biological Physics

From: Effects of active charge imbalances on the flow of the cell cytoskeleton by V. M. M. de Souza et al.

edp sciences Springer

The European Physical Journal volume 42 - number 4-5 - December - 2017

## EPJ H

Recognized by European Physical Society

### Historical Perspectives on Contemporary Physics

The Large Hadron Collider in the LEP tunnel. The Construction of the two machines was considered up to 1990.

From: The LHC Timeline: A Personal Recollection (1980-2012) by Luciano Maiani and Loris Borrelli

edp sciences Springer

The European Physical Journal

## EPJ Quantum Technology

Springer Open

The European Physical Journal volume 224 - number 6 - July 2015

## EPJ ST

Recognized by European Physical Society

### Special Topics

#### Quantum Phase Transitions in Correlated Electron Systems

H. v. Löhneysen and M. Vojta (Eds.)

Signature of a quantum phase transition.

Lower panel: Phase diagram in the vicinity of a quantum critical point (QCP) at temperature  $T = 0$  between two different ground states, tuned to a critical value  $\delta_c$  of a geometrical control parameter  $\delta$ .

Upper panel: At finite temperature  $T > 0$ , the relevant  $S(T, \delta)$  is largest for  $\delta < \delta_c$ .

edp sciences Springer

The European Physical Journal volume 133 - number 2 - february - 2018

## EPJ Plus

Recognized by European Physical Society

From: Fast and high-order numerical algorithms for the solution of noncommutative Hamiltonian Schrödinger equation by Akbar Moshiri

edp sciences Springer

SpringerOpen®

## EPJ Data Science

edp sciences Springer

# RI-related projects in EPJs:

## 1) EPJ A (Nuclear Physics) & EPJ C (Particle Physics)

In both fields experimental research is concentrated around relatively few large-scale instruments, globally.

## 2) EPJ Plus (all fields) collective roadmaps – examples:

EPJ Plus 2023 Impact factor 2.8

10 most recent All issues Focus Points Reviews

**EPJ Plus**  
**Focus Point on Middle Term Plan of Italian Laboratories in Nuclear Physics**  
 A. Formicola, M. La Cognata, J. Valiente, R. Nania and S. Pisano (Guest editors)

EPJ Plus 2023 Impact factor 2.8

10 most recent All issues Focus Points Reviews

Focus Point on Accelerator-based Photon Science Strategy, Prospects and Roadmap in Europe: a Forward View to 2030.

Open Access  
 Eur. Phys. J. Plus (2023) 138: 355  
<https://doi.org/10.1140/epjp/s13360-023-03947-w>  
 Regular Article

**The European strategy for accelerator-based photon science**

R. Abela<sup>1a</sup>, C. Biscari<sup>2</sup>, J. Daillant<sup>3</sup>, H. Dosch<sup>4</sup> and L. Rivkin<sup>1</sup>

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# RI-related projects in EPJs:

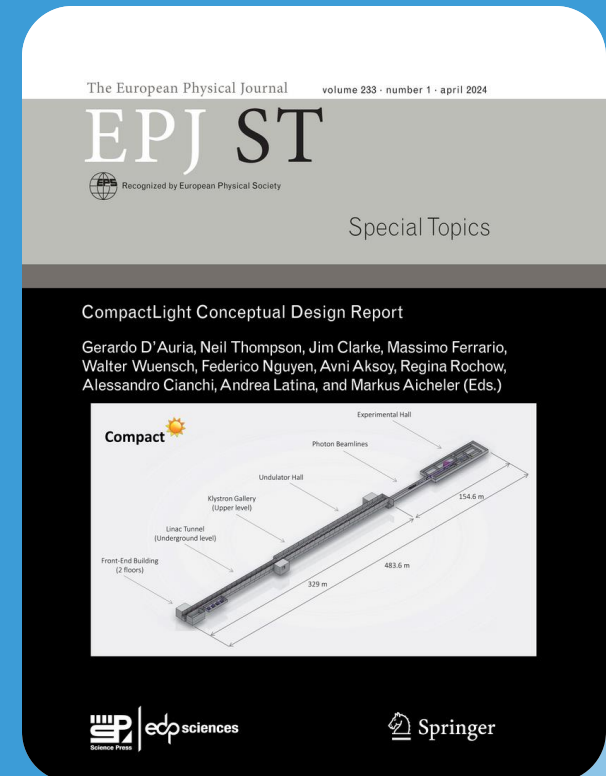
## 3) EPJ Special Topics (all fields) publishes large CDRs

### Welcome to the CompactLight Project



The EU-funded CompactLight design study, launched by a team of 22 International Laboratories and two Industries in January 2018, brings together world experts in the fields of accelerators and magnetic structures for photon production. The objective is to use the most innovative technologies for the implementation of the main components of an FEL: high brightness photo-injectors of the last

generation, compact and very high-gradient X-band accelerating structures machine as well as state-of-the-art undulators, to be able to produce high-energies in comparison with current machines.

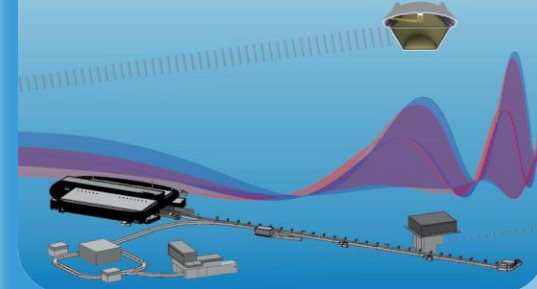
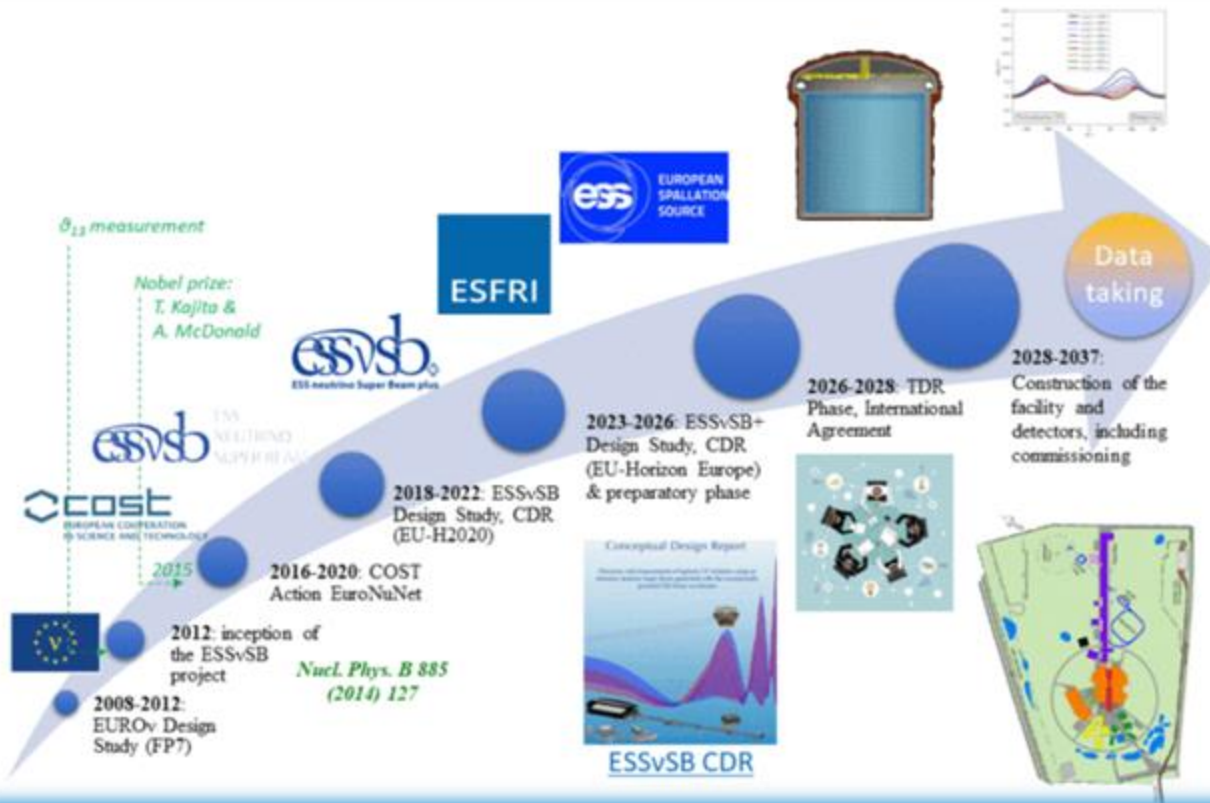


[Home](#) > [The European Physical Journal Special Topics](#) > [Article](#)

## The CompactLight Design Study

Review | [Open access](#) | Published: 22 March 2024

Volume 233, pages 1–208, (2024) [Cite this article](#)



[Home](#) > [The European Physical Journal Special Topics](#) > [Article](#)

# The European Spallation Source neutrino super-beam conceptual design report

[Review](#) | [Open access](#) | Published: 16 November 2022

Volume 231, pages 3779–3955, (2022) [Cite this article](#)

# Motivation for *EPJ Research Infrastructures*

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## FCC Volume 3: Civil Engineering, Implementation and Sustainability

30% of the total material of the  
final FCC study !

# EPJ Research Infrastructures as major relaunch



*Computing and Software for Big Science* is dedicated to the publication of high-quality material originating from all current and emerging scientific communities in which experimental research is increasingly based on large-scale research infrastructures.



## Advantages

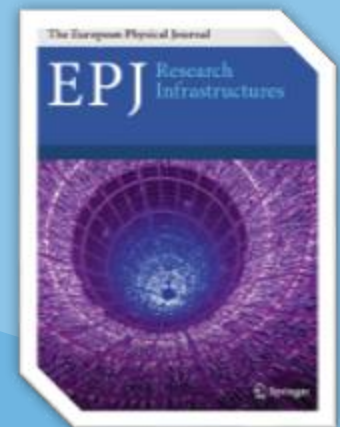
- Already indexed in SCOPUS and SCImago
- Springer Nature agreements: full OA and TAs

# *EPJ Research Infrastructures* - aims and scope – part 1

Research in both fundamental and applied sciences is increasingly organized around research infrastructures—whether on Earth or in space—through virtual research networks with shared resources or via major facilities and instruments.

This research is typically conducted through substantial collaborative efforts involving numerous scientists, professionals, and supporting organizations. These collaborations bring together expertise from across all fields of science and technology, supported by a wide range of administrative bodies and services.

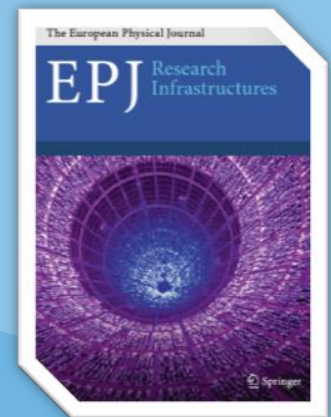
*EPJ Research Infrastructures* is a peer-reviewed, open-access journal dedicated to addressing the most pressing challenges facing current and future research infrastructures.



# EPJ Research Infrastructures - aims and scope – part 2

Topics of interest include, but are not limited to:

- **Data:** Management, FAIR principles, repositories, federated architectures
- **Computing:** Software, middleware, distributed workflows; frameworks and heterogeneous computing; AI regulations; hardware and IT equipment
- **Socioeconomics:** Socioeconomic impact assessments and project appraisals; evaluation methodologies; social license to operate; externalities and environmental impact; long-term planning and risk management
- **Innovation & Scientific Excellence:** Collaborations and knowledge transfer, including spin-offs, start-ups, and R&D partnerships
- **Sustainability:** Contributions to the Sustainable Development Goals (SDGs), particularly energy efficiency, circular economy, and functional architectures
- **Science Policy & Diplomacy:** Including dual-use considerations, science communication, outreach, and participatory science
- **Governance & Management:** Initiatives for future research infrastructures, including concept development and implementation studies

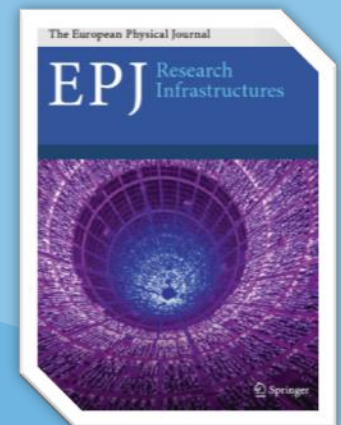


## *EPJ Research Infrastructures* - aims and scope – part 3

The journal welcomes a wide range of contributions—including research articles, reviews, white papers, roadmaps, case studies, technical and progress reports, as well as discussion and opinion pieces.

Submissions are invited from all users and staff of research infrastructures, members of related administrative or funding organizations, and scholars studying research infrastructures as a field.

Please note that the journal does not publish primary scientific research results obtained at research infrastructures.



# Journal Development (2026-2028)

- Content: good mix between solicited and un-solicited submissions
  - Single invited papers
  - (Closed) Topical collections based on invitations (only) through journal appointed guest editors
  - (Open) Topical collections based on topical workshops or topical conference sessions, guest editors typically among the workshop organizers, but papers handled by the journal.

Access to RIs – local & remote, policies, services, single site versus distributed

Sustainability of RIs - energy, materials, circular economy

RI collaboration on data storage and sharing, FAIR principles

RIs as service providers for SME R&D

New RIs under planning or commissioning

RI towards dual use, safety & security research

# Journal Development (2026-2028)

- Promotion of the journal through RI networks, workshops and conferences to increase also rapidly the number of unsolicited submissions.

E.g., major conferences in 2026:

International Conference on Research Infrastructures (Italy, fall 2026)

Big Science Forum (Netherlands, fall 2026)

## Outcome in terms of journal growth:

- 30+ articles in 2026 (mostly through invited articles and collections)
- 40-50 articles in 2027 (indexing in WoS)
- 50 – 100 articles in 2028 (more unsolicited than solicited submissions)

# Editorial Board structure

## 2-3 Editors-in-Chief (EiCs)

representing different communities, backgrounds and focus  
Johannes Gutleber, CERN

## 10-12 Associate Editors (AEs)

appointed by the EiCs to handle submitted papers

## larger Editorial (Advisory) Board

- feedback from the community (quality, relevance, scope)
- case-by-case assistance to EiCs/AEs (e.g. referees, guest editors,...)