



Science4Peace

# Science4Peace in difficult times

Pierre Van Mechelen  
on behalf of the Science4Peace Forum

# The Russian invasion of Ukraine

- Unspeakable atrocities and war crimes
- Strongest possible condemnation of aggression
- No arguments can ever justify violence

➔ These terrible events profoundly affect international scientific cooperation.

**How should the international scientific community react?**

# Scientific cooperation across borders

## CERN as leading example:

Since it was founded in 1954, CERN has promoted scientific collaboration across borders, inclusiveness and open science, **transcending political and other conflicts**. CERN's values, which are enshrined in the Convention, are as relevant as ever. **The “CERN model” of global cooperation is taken as an example by other intergovernmental organisations and endeavours.**

*CERN's Main Objectives for the period 2021-2025*

## How to uphold these principles today?

### CERN's mission is to:

- perform world-class research in fundamental physics;
- provide a unique range of particle accelerator facilities that enable research at the forefront of human knowledge, in an environmentally responsible and sustainable way;
- **unite people from all over the world to push the frontiers of science and technology, for the benefit of all;**
- train new generations of physicists, engineers and technicians, and engage all citizens in research and in the values of science.

*<https://home.cern/about/who-we-are/our-mission>*

# Sanctions on scientific cooperation

At the national level, most countries and funding agencies imposed sanctions such as

- cease funding of (new) collaborative research projects;
- end formal partnerships and exchanges at institute level;

while making explicit statements like

- no blanket suspension of academic links, ensuring dialogue remains possible;
- support of Ukrainian and Russian colleagues currently abroad, welcoming individual students and researchers;
- conscious of Russian colleagues that do not support the invasion and may feel abandoned by too severe sanctions.

**→ target the regime, not the individual scientists**

# Sanctions on scientific cooperation

At the level of institutes, sanctions range from cautious (adhering to national guidelines) to bold.

E.g., DESY imposed additional sanctions:

- banning visitors affiliated to Russian institutes;
- restricting access to IT infrastructure by individuals affiliated to Russian institutes;
- banning publications with co-authors affiliated to Russian institutes;
- deny participation to conferences by scientists affiliated to Russian institutes.

# Sanctions imposed by the CERN Council

- Suspension of the observer status of Russian Federation in the CERN Council
- Suspension of participation of CERN scientists in scientific committees in Russia and vice versa; suspension/cancellation of joint events; no new contracts of association for individuals affiliated to Russian institutes
- Intention to terminate CERN's International Cooperation Agreements (ICAs) with the Russian Federation and the Republic of Belarus at their expiration dates in 2024 (Dec 2024 and Jun 2024, respectively).
- Decision to review CERN's future cooperation with the Joint Institute for Nuclear Research (JINR) well in advance of the expiration of the current ICA in January 2025.

**→ in accordance with national guidelines issued in most member states,  
but with consequences for individuals working at CERN**

# Sanctions imposed by LHC Collaborations

Yearlong discussion about authorship, resulting in the following consensus:

- Authors affiliated with Russian or Belarussian institutes, or with JINR, sign the Collaboration's scientific publications with their names and ORCID identifiers (where available), and the institute affiliation is replaced, respectively, by the reference:  
*“Affiliated with an institute [or an international laboratory] covered by a cooperation agreement with CERN.”*
- The complete author list including all institute affiliations is made available to the journal in a non-public form for the purpose of machine-readable analysis or as historical data.
- No acknowledgement to the Russian and Belarussian funding agencies and JINR is made.
- On request, the experiment management will release a certificate attesting the contribution of the aforementioned institutes and funding agencies, or of JINR, to the work presented in the publication



# Alternative authorship solutions

The Belle II Collaboration implemented the following authorship solution:

- The names of all individual authors are listed;
- Author affiliations and country names are not listed. Instead, individual authors are uniquely identified using their ORCID;
- Papers will include the following acknowledgements that accurately recognize historical contributions pre-dating the Russian invasion of Ukraine:  
*“This work, based on data collected using the Belle II detector, which was built and commissioned prior to March 2019, was supported by ...(list of funding sources). These acknowledgements are not to be interpreted as an endorsement of any statement made by any of our institutes, funding agencies, governments, or their representatives.”*



# The Science4Peace Forum

The Science4Peace Forum was established shortly after the Russian invasion of Ukraine. Its main motivations and purposes are to:

- reflect on the consequences of the Russian invasion of Ukraine on the evolution of scientific cooperation
- defend the principle that cooperation among scientists engaged in peaceful fundamental research, fully decoupled from military or other scopes, must be protected
- weigh into decision making processes

No restriction for participation; anyone can join (incl. individuals from Russia, Ukraine, ...)!



# The Science4Peace Forum

## Activities

- biweekly meetings
- topical discussions on:
  - scientific exchanges and cooperation across borders
  - sanctions and restrictions
  - publication strategies
  - nuclear threats

Science4Peace Forum,  
NatWiss - Verantwortung für Frieden und Zukunftsfähigkeit e.V.,  
W&F - Wissenschaft & Frieden  
invite

**Sanctions in Science**  
One year of sanctions  
**A virtual panel discussion**

**12 April 2023, 5 pm (CEST)**

Panel:

- Dr Michael Brzoska (IFSH Hamburg)
- Dr Alexander Glazov (Particle Physics, BELLE II, DESY)
- Charles K. Johnson (Program Director of IPPNW international)
- Dr Götz Neuneck (Vereinigung deutscher Wissenschaftler VDW, Co-chair and Pugwash)
- Dr Clara Portela (Faculty of Law, University of Valencia)
- Dr Natasa Raicevic (Particle Physics, CMS, University of Montenegro)
- Dr Michel Spiro (President of the International Union of Pure and Applied Physics, IUPAP, and chair of the board of the CERN&Society foundation)
- Dr Jürgen Scheffran (Geography, University of Hamburg, NatWiss, VDW)
- Dr Ernst von Weizsäcker (Honorary President of Club of Rome)

Moderation: Dr John Ellis (King's College London, CERN)

<https://tinyurl.com/Science4Peace-PanelDiscussion>



Science4Peace web page: <https://science4peace.com>  
Science4Peace Forum contact: [hannes.jung@cern.ch](mailto:hannes.jung@cern.ch)  
NatWiss: <http://natwiss.de/>  
Wissenschaft & Frieden: <https://www.wissenschaft-und-frieden.de>

Science4Peace Forum  
invites

**The war on Ukraine**  
**Prof T. Sauer (Antwerp U)**

**28 June 2023, 5 pm (CEST)**  
chair: P. van Mechelen (Antwerp U)

**virtual event - ZOOM only**  
please register at: <https://tinyurl.com/ubxx5aaj>



**Abstract:** The war will end at a certain moment, hopefully followed by negotiations and a durable peace agreement. For the latter, it is important to know Putin's motivation for having started the war. It is my view that his motivation has not much to do with Russian "expansionism" (let alone "imperialism"), but with a perception of insecurity due to NATO expansion. If that is correct, the solution (at least in the short and medium term) consists of making Ukraine neutral. In the longer term, we should establish a more durable European collective security order that includes both Ukraine and Russia.

Tom Sauer is Professor International Politics at the Universiteit Antwerpen (Belgium). His main expertise is international security and more in particular nuclear weapons. He has published nine (edited) books, dozens of peer-reviewed articles, and hundreds of op-eds. He is a member of the Pugwash Conferences on Science and World Affairs, and received the Rotary Alumni Global Service Award in 2019.

Science4Peace web page: <https://science4peace.com>  
Science4Peace Forum contact: [hannes.jung@cern.ch](mailto:hannes.jung@cern.ch)




# S4P Petitions: Stop the escalation spiral

Condemnation of war against Ukraine

Calling to:


- remove sanctions against scientists
- promote non-military and peaceful scientific projects
- allow common scientific publications and participation in conferences
- avoid the escalation resulting from extending sanctions to scientific and personal relations within the physics community

## Stop the escalation spiral



Started May 1, 2022  
Petition to Directorates of research labs (CERN, DESY, etc), Universities, Science Committees

### Why this petition matters

 Started by [Hannes Jung](#)


Stop the Escalation Spiral

333

Signatures

500

Next Goal

 Support now

### Sign this petition

First name

Last name

Email

☐ Yes! Tell me if this petition wins, and how I can help other relevant petitions

☐ No. I don't want to hear about this petition's progress or other relevant petitions.

Sign this petition

<https://www.change.org/science4peace>

# S4P Petition: No use of nuclear weapons

## No First Use, Never Any Use of Nuclear Weapons



Started November 23, 2022

### Why this petition matters

Started by [Hannes Jung](#)

**No First Use, Never Any Use of Nuclear Weapons**

(text in [German](#), in [French](#))

1,900

Signatures

2,500

Next Goal

Support now

### Sign this petition

First name

Last name

Email

☐ Yes! Tell me if this petition wins, and how I can help other relevant petitions

☐ No. I don't want to hear about this petition's progress or other relevant petitions.

Sign this petition

- Demand governments to subscribe to a no-first-use policy (petition sent on the occasion of the G7 summit in Hiroshima)
- Signed by 14 Nobel Laureates and many other scientists
- Some encouraging responses received (Canada, Switzerland, ...)

<https://www.change.org/p/no-first-use-never-any-use-of-nuclear-weapons>

# Conclusion

- Cooperation between scientists has been a landmark in the progress of science and peace over the last several decades, providing a framework in which political disputes could be set aside for the benefit of scientific progress and its positive reflection on humanity
- The Russian invasion of Ukraine jeopardises these long-standing collaborations with sanctions imposed by governments, funding agencies, and individual institutes
- Although many decision-making bodies thread carefully, there is a need to hear the voice of scientists themselves
- The Science4Peace Forum provides a platform for such discussions

**[www.science4peace.com](http://www.science4peace.com)**