The exterior of the Atlas building at Cern.

□ The exterior of the Atlas building at Cern. Photograph: Claudia Marcelloni/Cern Atlas Project

management acknowledged that "discussion in the collaborations is very

difficult" and urged the various experiments' own boards that "authorship

Ratnikov, who worked in accelerator-based experiments for American and

that the halt in publications is not the biggest problem. "From discussions

with my Russian colleagues, nobody can accept what Russia is doing in

German institutes before returning to Moscow in 2016 as a professor, believes

Regarding publications, at an LHC board meeting in October Cern's

should be based on scientific grounds".

for the overall "protection of the scientists".

worldwide). A Cern spokesperson says that "the measures address [the

military invasion of an associate member state], which runs against the

ajar for peaceful scientific collaboration should conditions allow in the

future."

Higgs

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values of peaceful collaboration", adding that "the decision leaves the door

Ukraine. They just continue doing their job: doing scientific research, teaching students... [We] have this negative pressure at Cern in spite of many years, sometimes a significant part of [a scientist's] life, spent for the success of Cern experiments." Elusive by Frank According to John Ellis, a professor at King's College Close review - the London and veteran theoretical physicist at Cern: brilliance of physicist Peter "Russians working at Cern are covered by international

war." He explains that the termination of observer status in 2024 provides

coverage until then, in the hope of a permanent diplomatic solution, but calls

cooperation agreements. If these collapse, then there is

no legal basis for them to work in Switzerland and yet

some have signed open letters protesting [against] the

Although unique, the case of the LHC experiments is part of a wider trend. The German Research Foundation has warned scientists against publishing with co-authors from Russian institutes. The Web of Science database tracking citations has stopped evaluating articles from Russia. There have been reports of individual peer-review referees rejecting articles. And as Russian institutes are getting excluded from international projects, some fields see a direct impact - such as climate change research, which is being set back by the suspension of collaboration in the Arctic.

In a letter published in *Science* last spring, five prominent western scientists

Fedoroff, emeritus professor of biology at Pennsylvania State University, says

that "some of [the situation] seems pretty symbolic". In her opinion, science

diplomacy "can sort out the bad actors from the good actors, but we do much

As for the LHC stalemate, people at Cern point to a solution implemented at

the Belle II particle physics experiment in Japan. Belle II began listing

researcher and contributor ID), an identification scheme widely used in

Polish government reportedly objected to this tactic, not accepting the

explicit omission of Polish affiliations. The issue is still up in the air.

physics research that connects authors to their institutions. However, the

authors with their institute affiliations replaced by their Orcid (open

urged colleagues not to "abandon Russian scientists". One of them, Nina

less of it through official channels than we could be doing."

limbo, for scientists such as Ellis, "Maintaining scientific collaboration is top priority, as a great way of bringing nations together to solve humankind's problems." Or, as Fedoroff notes: "During the so-called cold war, interactions among Russian and American physicists and between the physicists and their respective governments were credited for keeping the war cold." ... as 2023 begins, and you're joining us from Germany, we have a small favour to ask. A new year means new opportunities, and we're hoping this

year gives rise to some much-needed stability and progress. Whatever

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