

Dear Reader,

You scientists shape this newsletter.

This newsletter is intended for all SPS members, researchers, industries, students, interested specialists and physics friends. Feel free to share this Newsletter within your community. If you would like to share some news with us, please contact [Celine.Lichtensteiger@UniGe.ch](mailto:Celine.Lichtensteiger@UniGe.ch).

## WHAT'S UP IN SWITZERLAND?

### EPFL Team Wins Second Place at IBM Quantum Best Paper Competition

Since 2018, the IBM Quantum competition runs every year as part of IBM's outreach program around the development of novel quantum algorithms and education in quantum computing. The [2019 IBM Q competition](#) gave away a total of \$28,000 to twelve different winning teams. One of the winning teams was



from [EPFL's Institute of Physics \(IPHYS\) and School of Computer and Communication Sciences \(IC\)](#), led by Drs Marc-André Dupertuis (IPHYS) and Nicolas Macris (IC). The team members were: Elias Riedel Gårding, Nicolas Schwaller, Su Yeon Chang, Samuel Bosch, Willy Robert Laborde, Javier Naya Hernandez, Xinyu Si, Chun Lam Chan, Frédéric Gessler. The EPFL team won 2nd Prize in the category of Best Paper for their work: ["Bell Diagonal and Werner state generation: entanglement, non-locality, steering and discord on the IBM quantum computer"](#).

Congratulations to the winners!

*Image: Some members of the 2019 EPFL IBM Q team. © EPFL*

### Label MINT by SCNAT

*Promotion of young scientists*

The Swiss Academy of Sciences (SCNAT) will award the "MINT label" to schools that are particularly committed to the MINT area (Mathematics, Informatics, Natural sciences and Technology). The high schools in Switzerland and Liechtenstein recognized by the Ordinance on the Recognition of High School Diplomas (MAV) are invited to submit an application dossier. A jury chooses the schools that meet the criteria. The label is awarded for a period of five years and they can advertise with it. [\[More\]](#)



*Image: SCNAT*

### Discover CERN online

CERN is closed during the COVID-19 crisis, but virtual tours, educational resources and



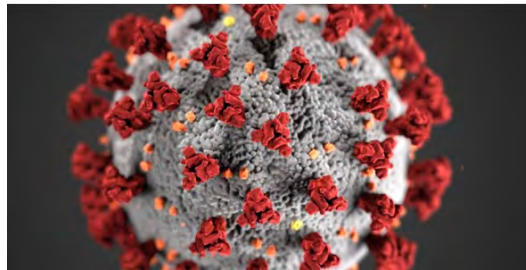
fun with physics make it possible to learn about CERN, related laboratories and research from the comfort of your home. Here is a non-exhaustive list of resources available [online](#).



*Image: Wandering the immeasurable / Pérégrinations à l'infini*

## Physics contributes fighting the COVID19 emergency

Since the COVID19 pandemic has started, many Swiss institutes have started projects and many physicists in Switzerland and world wide have offered their knowledge and special infrastructure to contribute fighting the COVID19 emergency. In Switzerland, physicists from CERN, PSI, from federal and cantonal universities are offering their expertise, their support and tools. A growing list with initiatives and projects based in Switzerland and involving its international scientific community is collected by CHIPP. Your project could be added as well. [\[More\]](#)



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*Image: Illustration of the new coronavirus, Covid-19 - March 2020 / © UPI/MacPPP*

## Science at home for kids

*By the Scienscope - University of Geneva*

The [Scienscope](#) - the scientific mediation center of the Faculty of Sciences of UNIGE - is closed during the COVID-19 crisis. As an alternative during this closure, the Scienscope offers many resources for kids to discover and experiment science at home. They include experience sheets designed in



collaboration with Migros Magazine, links to the "L'Oreille des Kids" broadcasts produced in collaboration with the RTS intended for 8-12 years old, puzzles on the RTSDécouverte website with explanations from Scienscope members and UNIGE researchers, games, discoveries, and most recently an online escape game for 12-15 years old. [\[More\]](#)

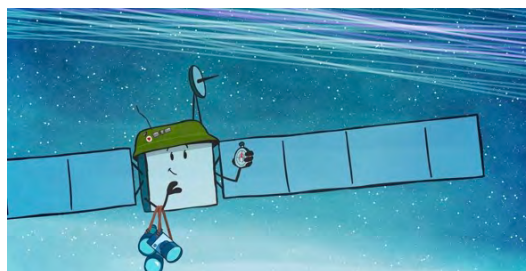
*Image: © Migros Magazine / Mathieu Bernard-Reymond, Mathieu Rod, François Schaer*

# WHAT'S UP IN EUROPE?

## Space science from home

*Resources for children and adults*

With many people across the world staying at home these days, the European Space Agency (ESA) has curated a selection of activities for you to pass time and learn more about space science in the meantime. Related links can be found on the SCNAT website [here](#).



*Image: Rosetta goes on an excursion © ESA*

The Swiss Physical Society (SPS) unites persons interested in physics from university, schools, research, development and industry. The SPS promotes the scientific exchange of ideas in Switzerland and with its international environment.

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