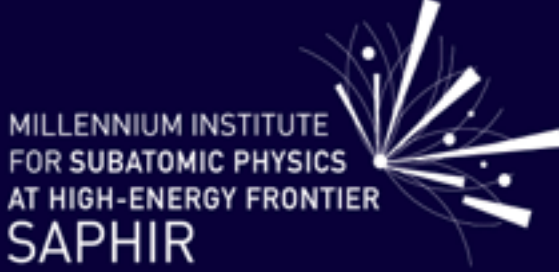


# SAPHIR NEWSLETTER



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## SAPHIR MILLENNIUM INSTITUTE

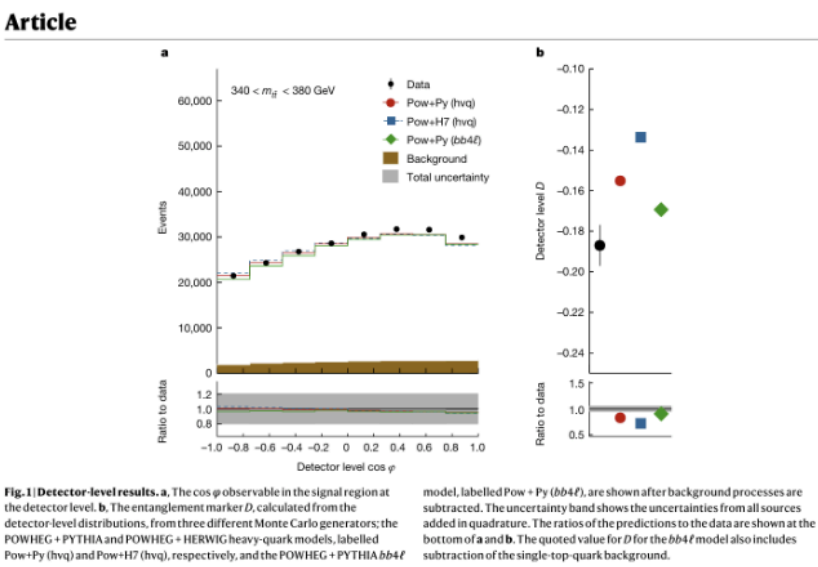
SEPTEMBER & OCTOBER – RECENTLY NEWS

### RESEARCH

ON THIS NEWSLETTER, OUR DEPUTY DIRECTOR, PROFESSOR FRANCISCA GARAY, RECOMMENDS THIS FOLLOW PAPER

#### “Observation of quantum entanglement with top quarks at the ATLAS detector”

“Entanglement is a key feature of quantum mechanics<sup>1,2,3</sup>, with applications in fields such as metrology, cryptography, quantum information and quantum computation<sup>4,5,6,7,8</sup>. It has been observed in a wide variety of systems and length scales, ranging from the microscopic<sup>9,10,11,12,13</sup> to the macroscopic<sup>14,15,16</sup> [...]”

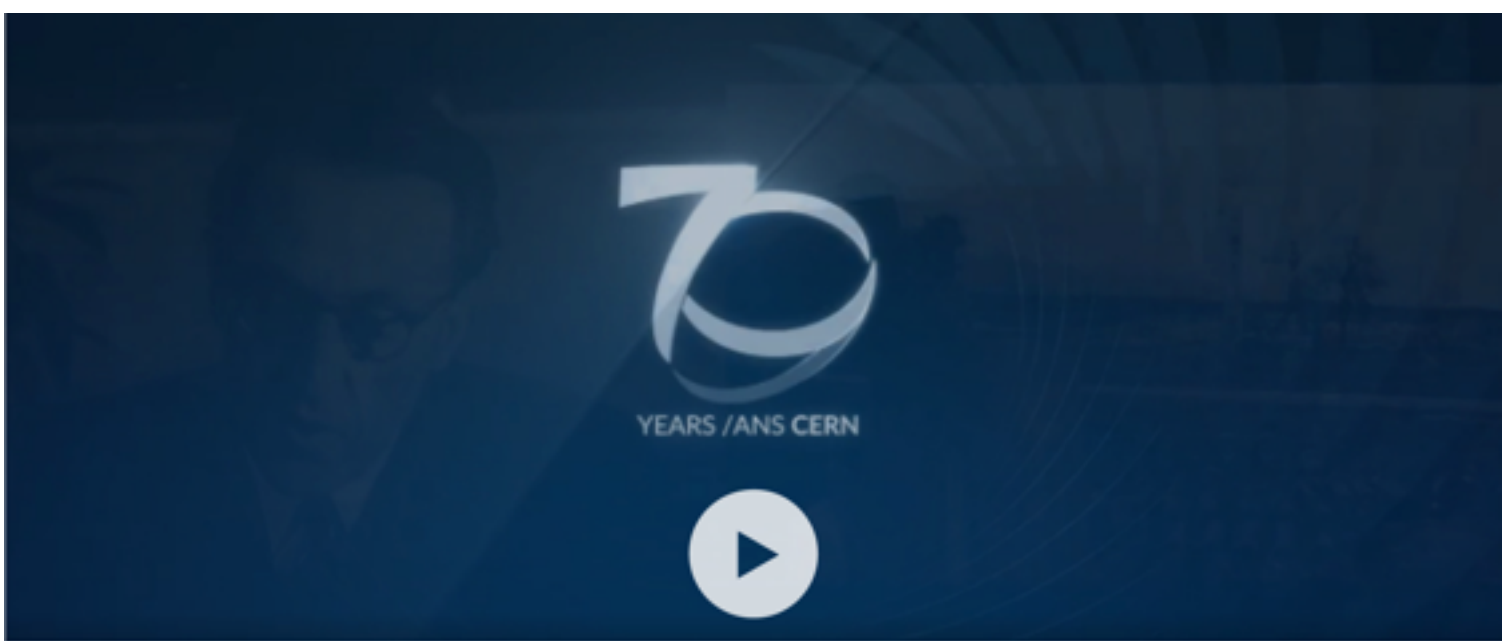


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### SAPHIR’S CERN 70TH ANNIVERSARY

On September 29th, the European Laboratory Particle Physics celebrated its 70th anniversary, and to commemorate this, our institute created a series of graphic pieces with data and information related to the great scientific and technological contributions developed under the auspices of CERN.

LINK 70TH ANNIVERSARY VIDEO



### NETWORKING

#### SAPHIR’S EXECUTIVE TEAM TRAVELS AROUND EUROPE TO PROMOTE THE CENTER AND GENERATE NEW NETWORKS.

With the mission of developing a series of meetings with strategic actors, at the level of academic and government representatives; Mr. Felipe Olivares, SAPHIR’s Executive Director, and Mr. Jack Brady, SAPHIR’s International Relation Officer, traveled around Europe during the past september. Italy, UK and Switzerland, were some of the countries that our team visited; being in cities such as Rome, Palermo, London and Geneva.

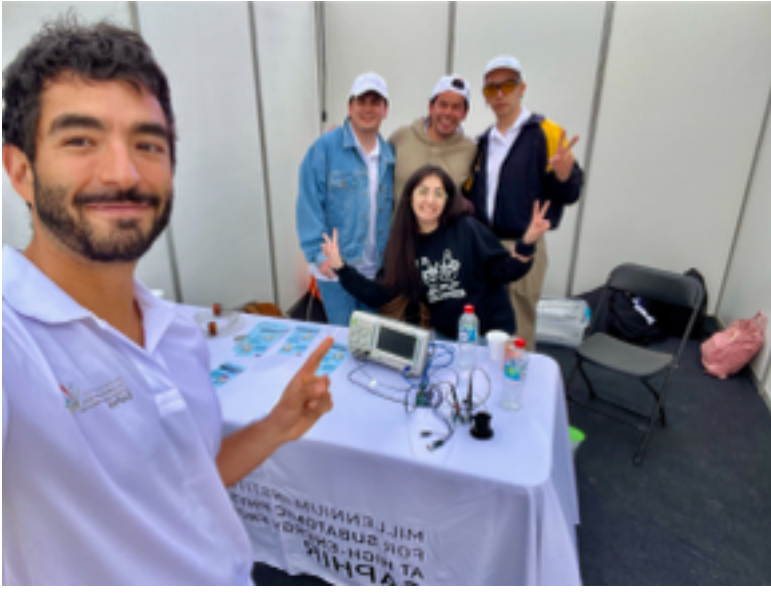
They met with authorities such as the Chilean ambassador in Rome, Dr. Ennio Vivaldi, and the Chilean ambassador in the UK, Ximena Fuentes. Plus, they reunited with representatives of faculties of Physics, Engineering, Chemistry and Astronomy of the University College London (UCL).



### OUTREACH

#### SAPHIR MILLENNIUM INSTITUTE AT THE 2024 SCIENCE FESTIVAL ORGANIZED BY MINISTRY OF SCIENCE, TECHNOLOGY, KNOWLEDGE AND INNOVATION, CHILEAN GOVERNMENT.

During October 6TH, at “Medialuna de Rancagua” esplanade, a new version of the Science Festival (FECI) was held – On the occasion, several research and scientific outreach stands participated, among which could be found: robotics, ecology, engineering, education and our stand, on Subatomic Particle Physics.



### WORKSHOPS FOR SCHOOLS STUDENTS 2024 - SAPHIR MILLENNIUM INSTITUTE



CARLOS FLORES’S TALK AT “Colegio Sagrados Corazones de Alameda”



ADDLES CASTILLO’S TALK AT “Liceo Tajamar de Providencia”

OPEN CALL: If you have o known a school interested in participating with us, write to the email: pgrunert@institutosaphir.cl with the subject: “SCHOOL’S WORKSHOPS SAPHIR 2024”.

#### LAUNCHED OF THE “SAPHIR’S 2024 EDUCATIONAL CAMPAIGN ON PARTICLE PHYSICS FOR KIDS”

The SAPHIR Millennium Institute launches a graphic campaign that introduces basic concepts about Particle Physics for kids. This material is focused on primary education ages. The content was developed by the Ph. D. student, Addles Castillo, and was disseminated and delivered to the community through social networks, and also, at the Science Festival developed in Rancagua during the past september. This material will serve as input for future educational events of the institute, under the commitment to strengthening the Chilean scientific culture.



Giovanna Cottin, Associate investigator at our institute, and Francisca Garay, deputy director of SAPHIR, were highlighted in this interview by @alumnuccchile for the “Niñas Atómicas” project.

This initiative seeks to “bring knowledge of programming, electronics and Particle Physics closer to young people who are enthusiastic about knowledge.”.

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### TECHNOLOGY LAUNCH OF THE “MOVING TABLE” — GRAPHIC CAMPAIGN

We present the “Moving Table” project, a machine capable of moving and lifting calorimeters (instruments that measure heat quantities) of up to 8 tons, in the “NA64” experiment at CERN.

The “Moving Table” is a machine that was born from the collaborative work between professionals from our institute and some of its host universities, such as the Universidad Nacional Andrés Bello (UNAB) and the Universidad Técnica Federico Santa María (UTFSM). In addition, the engineering and manufacturing company: “Talleres Artificio”, participated in this successful symbiosis.



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