

CERN 70 years incubating Science, Art, Education initiatives

Celebrating the 70th anniversary of CERN
at National Centre for Scientific Research DEMOKRITOS,
Athens / Greece

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July 10th 2024

LAYING OF FOUNDATION STONE
SIGNATURE OF THE AGREEMENT
WITH
THE SWISS FEDERAL COUNCIL

The recent development of science has been very rapid and one does not have to go very far back to come to an epoch where the style of scientific endeavour still had its original form. This original style can best be compared with that of the creative artist, in the sense that it was first and foremost a highly individualistic enterprise in which the creator was essentially alone with his world of thoughts. This does not mean that either science or art were ever separated from the realities of the surrounding world. The act of creation, however, had to be primarily achieved in solitude and meditation.

Prof. Felix Bloch

10th and 11th JUNE 1955

Director General
European Organization for Nuclear Research

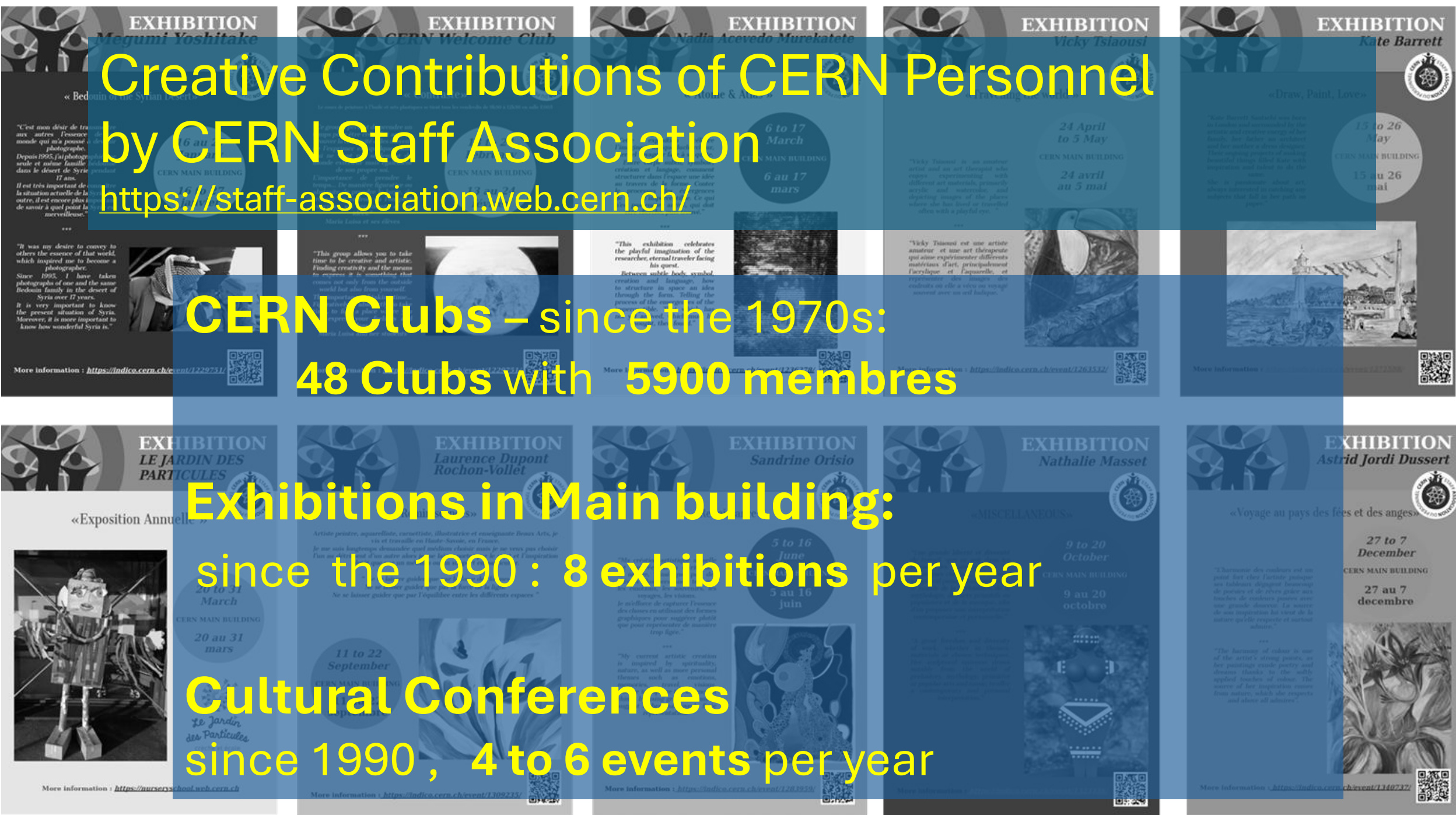
Creative Contributions of CERN Personnel by CERN Staff Association

<https://staff-association.web.cern.ch/>

**CERN Clubs – since the 1970s:
48 Clubs with 5900 members**

**Exhibitions in Main building:
since the 1990 : 8 exhibitions per year**

**Cultural Conferences
since 1990 , 4 to 6 events per year**



Engagement on European & Local Festivals

CERN MusiClub presents

HARDRONIC

MUSIC FESTIVAL vol. 2024

Saturday 6 July 2024

R3 Terrace Prévessin – from 3 PM

Music from 4 PM

[CLICK HERE FOR MORE DETAILS!](#)

Local Event:

<https://hardronic.web.cern.ch/2024/>

CERN HARDRONIC Festival Since 1985

by CERN Music Club/ CERN Staff Association

THE BIG BANG COLLECTIVE:

www.thebigbangcollective.com

Since 2015 in collaboration with the **WOMAD Festival** in the **UK** further Partnerships were formed with in Science Pavilions at the **Pohoda Festival in Slovakia**, the **Colours of Ostrava** in the **Czech Republic** and the **Roskilde Festival** in and at the **Smukfest in Denmark** and **Rototon Sunsplash in Spain**.



Dive into the exciting world of physics at the World of Physics Festival Programme, where science meets the arts in a vibrant celebration of discovery.

This unique collaboration between leading science institutions and popular music festivals across Europe

Les Horribles Cernettes



Les Horribles Cernettes

on **18 July, 1992** – the first picture was uploaded by **Tim Berners Lee** on the web by, the inventor of the **World Wide Web**.

<https://musicclub.web.cern.ch/bands/cernettes/firstband.htm>

at the **CERN HADRONIC FESTIVAL 1998**



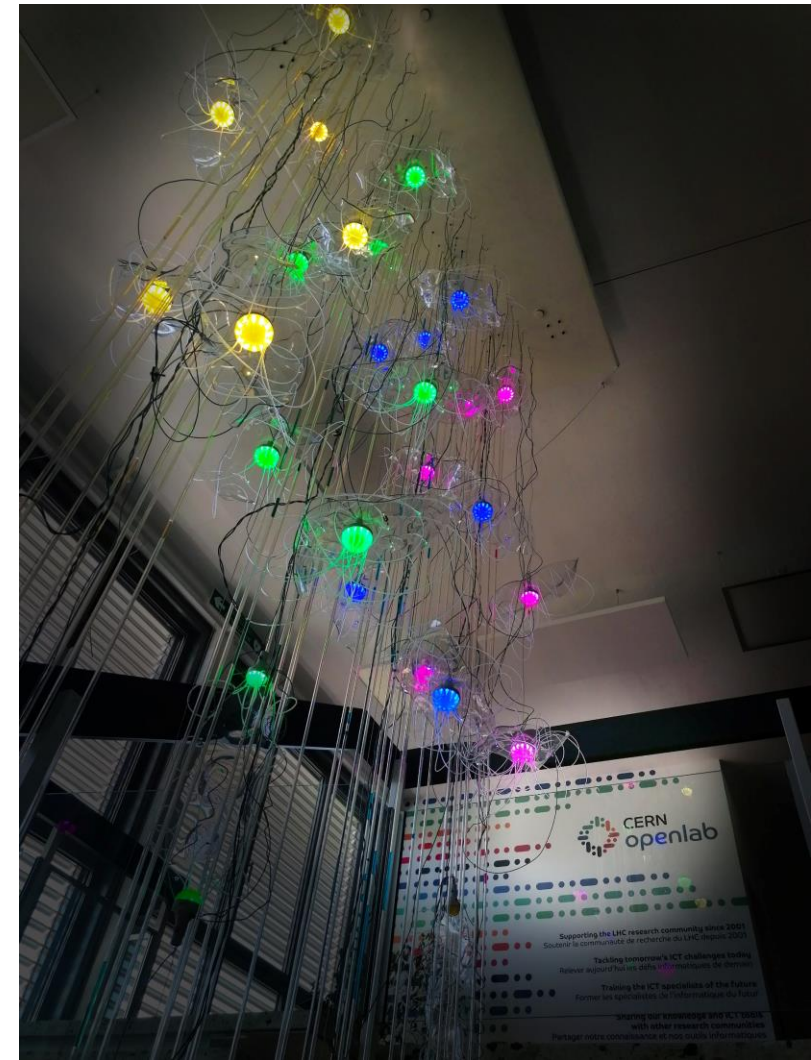
Music and physics: a spacetime voyage back to our origins, with **Yo-Yo Ma and Fabiola Gianotti** / **Science Gateway 2023**



Site Specific Art Installations



1987, “Cosmic Song” by Serge Moro
<https://cds.cern.ch/record/41855>



2021, “Fluidic Data: When Art Meets CERN, Data Flows”
<https://agneschavez.com/portfolio/fluidic-data/>

Site Specific Art Installations



1985, "MATIER"

Suisse sculptor , André Bucher

[https://fr.wikipedia.org/wiki/Andr%C3%A9_Bucher_\(sculpteur\)](https://fr.wikipedia.org/wiki/Andr%C3%A9_Bucher_(sculpteur))



2014, "wandering the immeasurable"

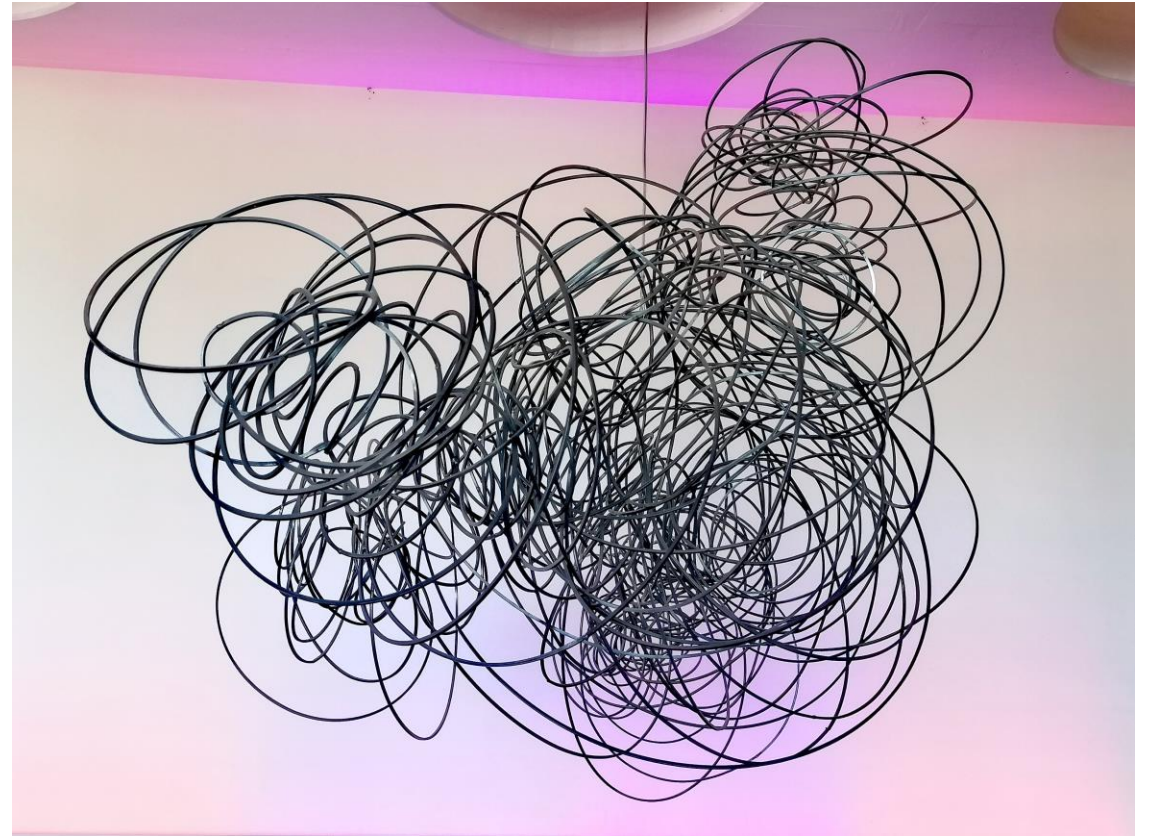
Canadian sculptor, Gayle Hermick

<https://cds.cern.ch/record/1563838?ln=en>

Site Specific Art Installations

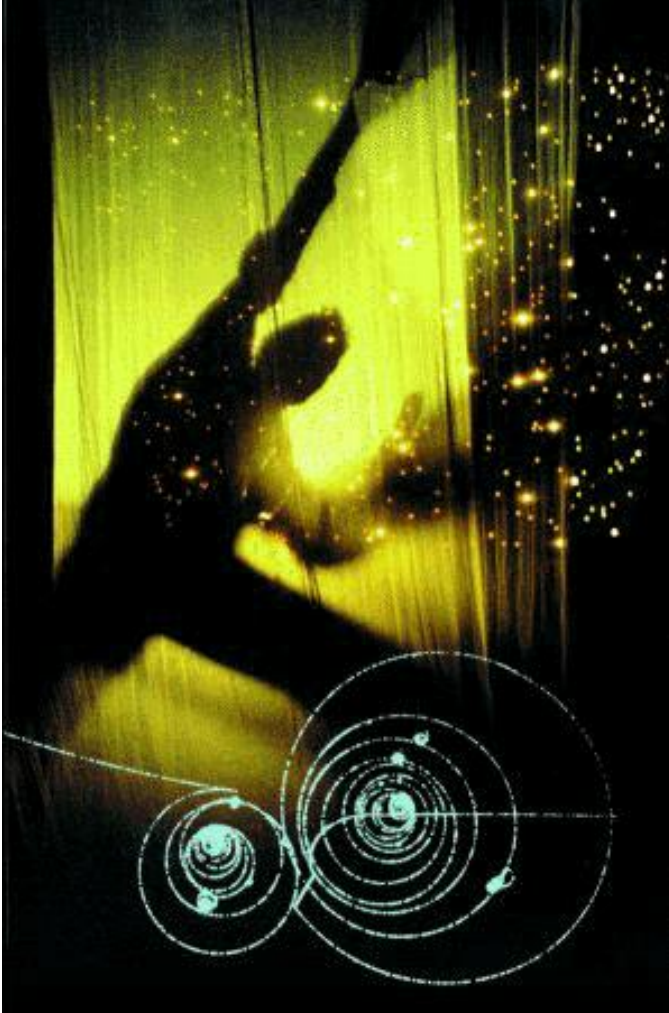


2011, "THE SLATE GARDEN"
landscape architect, Laurent Essig
<https://cds.cern.ch/record/1403158?ln=en>



2008, "Feeling Material XXXIV"
British sculptor, Antony Gormley
<https://cds.cern.ch/record/1376119>

Performances on CERN site



1999 Oracle of Delphi
A show in the CERN LEP
– DELPHI cavern

It is a show of shadows and light mixing acrobatics, mime and music. It was presented by the Miméscope company in collaboration with CERN



2005 Gianni Motti, “Walking for art’s sake” The man who compared himself to a proton
<https://cds.cern.ch/record/840316>

Site Specific Art Installations



2010 American artist Josef Kristofletti
<https://home.cern/news/press-release/cern/atlas-collaboration-cern-unveils-giant-mural>

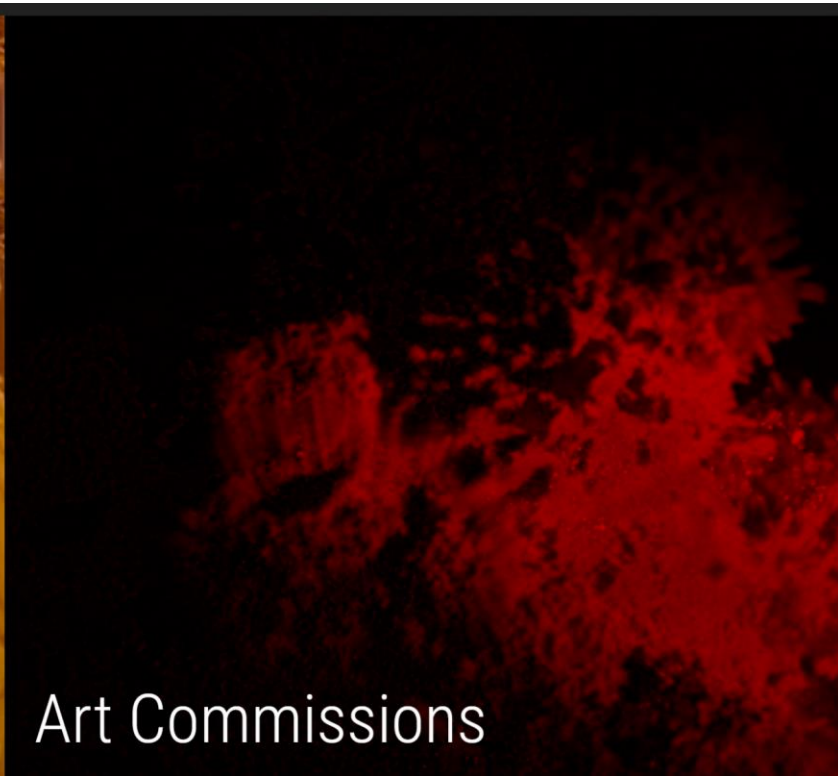


2011 photographer M. Brice, M.Hoch
<https://mhoch.web.cern.ch/Art@CMS/CMSLifeSizeImage.pdf>

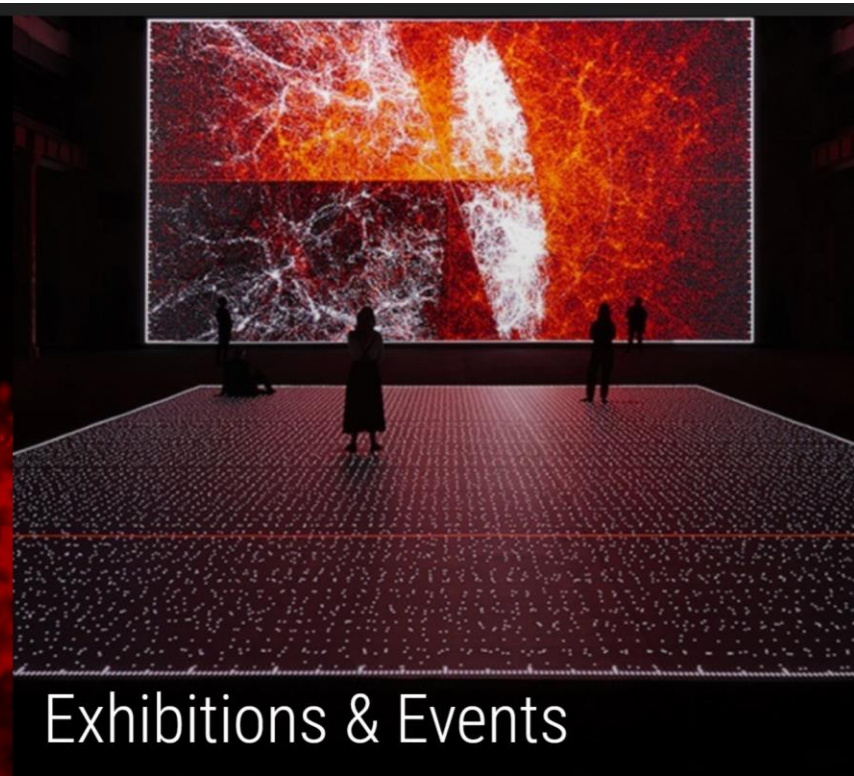
ARTS AT CERN <https://arts.cern/>



Artistic Residencies



Art Commissions



Exhibitions & Events

Since 2012

more than 200 artists have participated in the residencies

Team

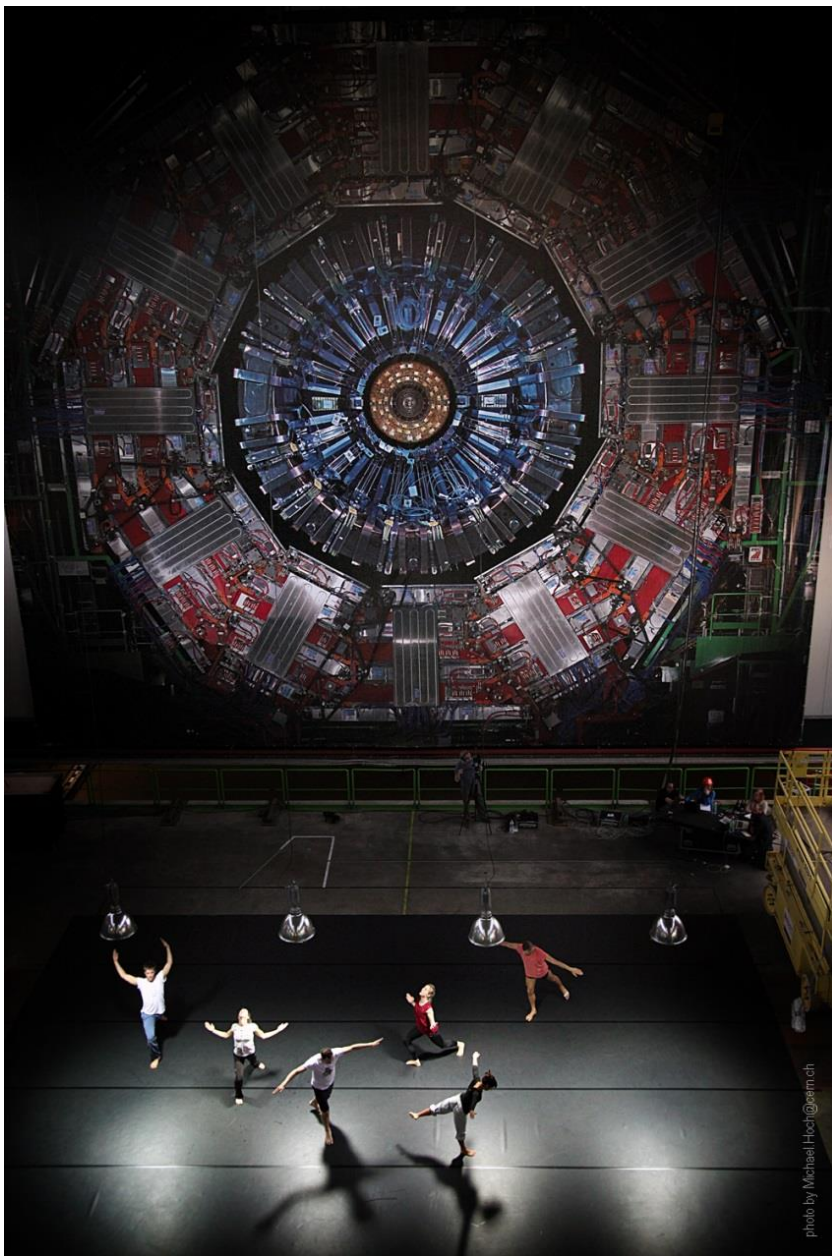
Mónica Bello, Curator and Head of Arts at CERN

Valeria Pietropaolo, Administration

Ana Prendes, Assistant Curator and Communications Producer

Xenia Harder, Residencies Coordinator

Collide art@CERN residency program



2013 Quantum

a fusion of dance and lighting installation developed by Gilles Jobin and Julius von Bismarck, debuts in the CMS cavern during CERN's Open Days, Photo by Michael Hoch



2018 Semiconductor, HALO,

a large-scale art installation conceived at CERN and inspired by ATLAS data and exhibited during 2018 Art Basel. Photo by Claudia Marcelloni © CERN

Engagement via RapMusic

2008 "Large Hadron Rap"

Kathy McAlpine

American science journalist



Video: <https://www.youtube.com/watch?v=j50ZssEojtM>
https://en.wikipedia.org/wiki/Katherine_McAlpine

2016 Particle Physics Rap Album "CONCERNED"

2019 STFC / UK – grant to produce Rap EDU material

2024 Physics Rap Album "ORIGINAL conSCIENCE"



Summary Article 2024:

<https://www.bristol.ac.uk/alumni/stories/magazine-summer-2024/field-notes/>

Summary EDU material 2024:

<https://consensus.avr-music.com/rapper-consensus-original-conscience-decoded-breakdown-of-the-album-cosmology-astronomy-particle-physics-and-lyrics/>

CONSENSUS –

Antoine Gittens-Jackson

UK Rapper art@CMS Collaborative Artist



CERN High School teachers program since 1998

CERN international teachers programme: International High School Teacher (HST) Programme and the International Teacher Weeks (ITW) Programme

<https://teacher-programmes.web.cern.ch/international-teacher-programmes>

CERN national teachers programme/ Greece: <https://teacher-programmes.web.cern.ch/greek-teacher-programme>

Teacher, **Margarita Lorenzo Cimadevila** / Spain

Participant HST 2004

<https://hst-archive.web.cern.ch/archiv/HST2004/margarita/index.html>



As part of the Art @ CMS initiative, **UK artist Rachael Nee** worked with a group of **international teachers** taking part in the **2017 High School Teacher Programme** to produce an art installation.

<https://home.cern/news/news/cern/potato-powered-cosmos>

art@CMS

since 2011

– ORIGIN

since 2017

cross disciplinary Science & Art engagement and networking

Network of global Scientific Collaborations working on the ORIGIN of the Universe:

ATLAS, ALICE, CMS, LHCb, FCC, AMS, LIGO, VIRGO, KAGRA, LISA, Cosmic Explorer, Einstein Telescope, ICEcube, Muography

Outreach



cross disciplinary Engagement & Networking

Create a cross disciplinary dialogue with creative professionals

AND

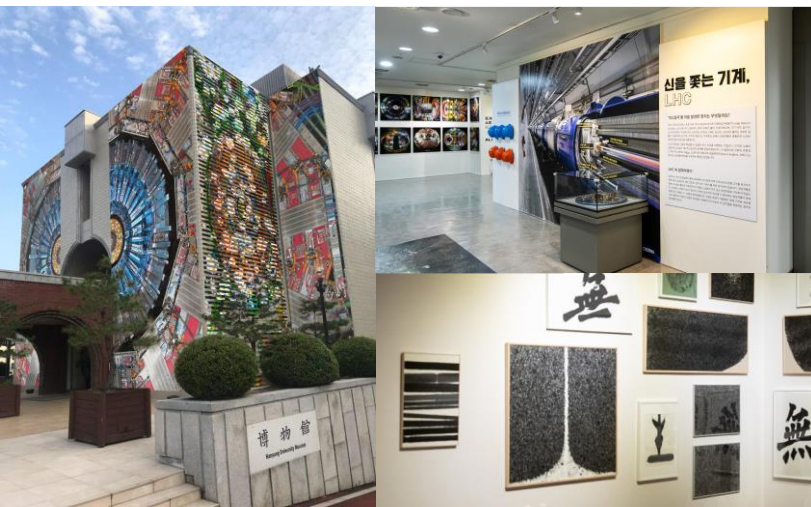
Provide this dialogue to the next generation via EDUCATIONAL institutions

Exhibitions supported by ORIGIN / art@CMS



2018 Toronto Canada @ OSC:
ORIGIN CANADA: ATLAS, CMS,
LIGO/VIRGO, Muography, CLS,
Perimeter Institute, Ontario Science
Centre, Ontario Ministry for Education

2018 Vienna AUT @ AULA:
CMS, LIGO/VIRGO, Muography,
Oesterreichische Akademie der
Wissenschaft, Applied Arts
University, mumok Museum



**2021 SEOUL KOR @ Hanyang
museum:** CMS,ALICE, LIGO/VIRGO,
ICEcube, Hanyang University

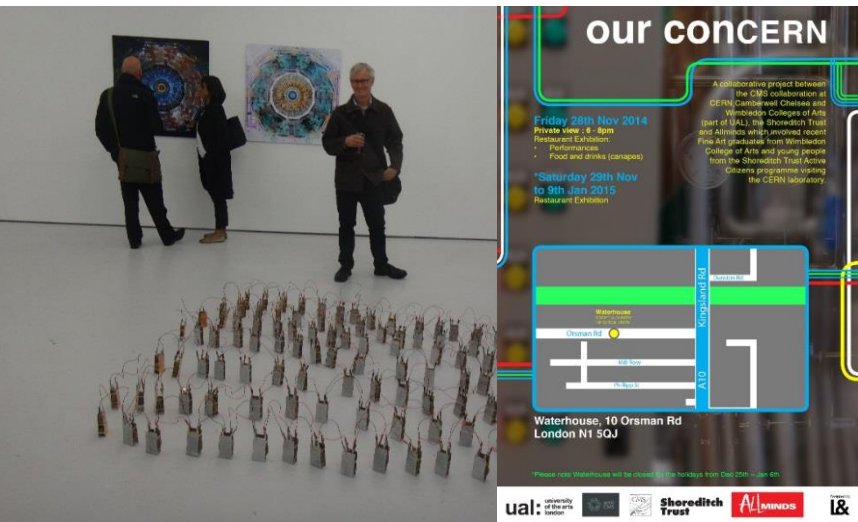
2022 OMAN Science Festival: Oman
Ministry of Education, ALICE, ATLAS, CMS,
LHCb, AMS, FCC, LIGO, VIRGO, KAGRA,
LISA, Einstein Telescope, Cosmic Explorer
IceCube and Muography



creative academic collaborations

supported by ORIGIN / art@CMS

cross disciplinary engagement and networking with academic institutions



Chelsea College of Arts London / UK
1 semester sciART course 2014-2015-2016

Saint Martins College of Art /Imperial College UK
2 semester sciART course October 2016 – 2017

Applied Arts Uni Vienna/ HEPHY, AUT
2 semester sciART course 2016 / 2017 / 2028



ESA – Ecole Supérieur d'Art
Lille/France 2017-2018

KASK Ghent / Belgium 2017-2019

Art University Cetinje/ Montenegro

Science & Art @ School - Cultural Collisions

supported by ORIGIN / art@CMS

cross disciplinary engagement and networking for school education



SciArtEDU Workshops: in Germany / Austria / Switzerland / Canada/ Montenegro / Korea / Oman / and many more....

Science & Art Festival contributions in Greece

Thessalolinki Science Festival -

Thessaloniki / Greece 14th – 14th May 2015

art@CMS Exhibition – science&art, talks/ WS / Virtual CMS Tour

Athens Science Festival - Technopolis

Museum Athen / Greece 17th – 22nd March 2015

art@CMS Exhibition – Sci&Art/ Workshops – large scale CMS art installation

Gr En

THESSALONIKI SCIENCE (f)ESTIVAL

“WE” Πολλύωρος Ποητισμού & Αθλητισμού
“ΔΕΘ-Helexpo” Περίπετρο 8
14-17 ΜΑΪΟΥ 2015
Ανακαλύψτε την Επιστήμη στην καθημερινότητά μας!

ΑΡΧΙΚΗ ΠΟΙΟΙ ΕΙΜΑΣΤΕ FESTIVAL 2015 ΝΕΑ BLOG ΧΟΡΗΓΟΙ PRESS ΕΠΙΚΟΙΝΩΝΙΑ

THESSALONIKI SCIENCE FESTIVAL

ΚΑΤΕΒΑΣΤΕ ΤΟ ΠΡΟΓΡΑΜΜΑ 2015 ΣΕ PDF

ΠΡΟΓΡΑΜΜΑ ROBOTIKLAB ZONE

ΠΡΟΓΡΑΜΜΑ ΕΡΕΥΝΗΤΙΚΟΥ ΚΕΝΤΡΟΥ "ΑΘΗΝΑ"

ΕΛΑΤΕ ΣΤΗΝ ΔΙΑΔΡΑΣΤΙΚΗ ΕΚΘΕΣΗ

ΔΕΙΤΕ ΤΗΝ ΕΚΘΕΣΗ ΤΕΧΝΗΣ

ATHENS SCIENCE FESTIVAL 2015

2nd ATHENS SCIENCE FESTIVAL

Τι κοινό μπορεί να έχει ένας επιστήμονας του CERN με έναν καλλιτέχνη;

ΑΓΓΕΛΟΣ ΑΛΕΞΟΠΟΥΛΟΣ & ΧΡΙΣΤΙΑΝΑ ΚΑΖΑΚΟΥ*

...ακούει το ένα πεδίο στο άλλο και πώς αυτός ο διεπιστημονικός διάλογος



Summer Student Courses and the Hellenic Forum at Demokritos for the 2018 <http://www.demokritos.gr>



Science & Art Workshops in "Ellinogermaniki Agogi" 2017

cross disciplinary science & art workshop in ELLINOGERMANIKI AGOGI / Athens Greece 2017



Creating Culture

Inspiring the next generation in **science methodology** & **art practice**, fostering **critical & creative thinking**, and highlighting the significance of **both science & the arts for humanity** require **collaboration & networking** among professional communities.

Together, with **CERN**, we can **create richer** and more **impactful future** for global society for the next

70 YEARS

Thank you for your attention!

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