







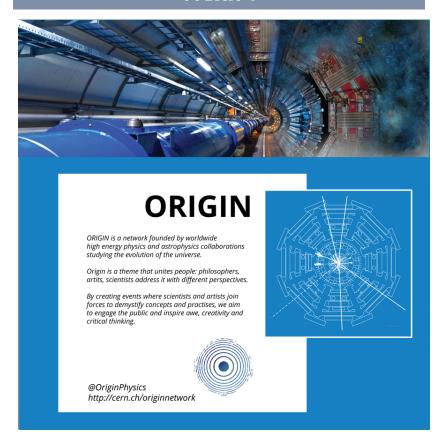


ORIGIN-Mexico: an Art-Science exhibit for the LHCP19 conference

Claire Adam-Bourdarios
On behalf of the organisation team

## + Introducing the ORIGIN network

#### What?



#### Who?

- Created in January 2018
- 1 or 2 co-coordinators per participating collaboration



 Open network: actors keep their freedom and identity

Why?

How?



### WHY? The power of worldwide collaborations

The HEP Art-Science landscape evolved in the last few years, thanks to a growing number of initiatives to

- Attract established artists to major labs (e.g. CERN residencies, but not only)
- Introduce arts in STEM (e.g. Cultural Collisions)
- Co-organize events with museums & art schools (e.g. KASK this week)

#### It is maybe time to:

- Share expertise & networks
- Increase the visibility of colleagues doing excellent work in the shade
- Use and highlight the power of diversity in our worldwide collaborations







#### The ORIGIN network

#### LHCP 2019 - May 20/25 - Puebla, Mexico



What is the nature of the universe ? What is it made of ? How can Art and Science infer and discuss its origin and evolution ?

Over the full LHCP 2019 conference duration an exhibit addressed these questions and introduced for the first time in Mexico the ORIGIN Art-Science partnerships concept. It was open to all interested, free of charge, and was build as inspiring frame for informal interactions between the public, professional artists & scientists, students & schools.

The exhibit content was prepared through interactions between BUAP & CERN scientists (who introduced the LHC goals and experimental program), ARPA art students & teachers (who curated an art competition) and professional artists. Mexican scientists brought detector pieces to explain students how HEP research is performed in their institutes. LHC and detector photos illustrated for the Puebla public the context and objective of the LHCP conference, taking place "next door".

Video: a flavour of the exhibit & competition prize ceremony

Images: #origin\_puebla ₽

ORIGIN PUEBLA

Overview

Event: Art-Science exhibit

Co-organizer: BUAP ₽

Co-organizer: BUAP-ARPA ₽

Co-organizer: ATLAS in a Suitcase

Partners: LHCP 2019 Conference

Partners: Mexican institutes @CERN

Partners: ALICE Virtual Visits

Resources: ORIGIN physics links

Resources: CERN teachers programme *∂* 

Resources: Cevale2ve @

News: Poblanerias 🔗

News: 35mm puebla ∂

News: Sala de Prensa FCCom BUAP ∂

SCIENTIFIC PARTNERS

ALICE collaboration

ATLAS collaboration @

CMS collaboration @

IceCube collaboration @

LHCb collaboration

LIGO collaboration &

Muographix collaboration @

VIRGO collaboration @

Core

#### Project specific







Conference organizers = BUAP-ALICE group

Art competition project = BUAP-ARPA

All remote interactions by, for & with Mexican scientists, students, artists, teachers, public.

Budget for material transport: zero ☺

Preparation: 10 months

#### **Organisation & contacts**

Please use the email addess origin-mexico@cern.ch™ to reach the full team;

- Arely Cortes Gonzalez (Students training & programme CERN ATLAS fellow)
- Claire Adam @ (ORIGIN co-coordinator CNRS/LAPP ATLAS group)
- Diana Exzacarias Montalvo 🖋 (Mexican teachers programme TecNM Instituto Tecnológico de Orizaba)
- Irais Bautista Guzman ❷ (LHCP conference chair BUAP ALICE group)
- Jesus Pérez Acosta ❷ (Art competition curator ARPA Coordinador del Colegio de Artes Plásticas)
- Lorenzo Diaz Cruz (Students mentor BUAP theory group)
- Luis Flores Castillo (Mexican teachers programme Chinese University of Hong-Kong ATLAS group)
- Nadia Leal @ (Students crew coordinator Student in BUAP-FCFM)
- Yazmin Alejandra Pineda Tellez (Exhibit curator ARPA Colegio de Artes Plásticas)

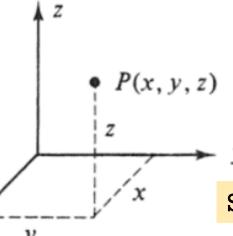
*This event could not have been setup without the kind support of:* BUAP ♠, members of the LHCP 2019 conference committees, CERN ECO group, and the 4 ALICE, ATLAS ♠, CMS ♠, LHCb collaborations.

### Build up on specific inputs/situations

#### Origin Canada: "Cultural Collisions" in Toronto



Education



South East Europe: educational networking and engagement initiative



Art

ORIGIN Japan: 2018 events in Tokyo



Science















#### --- Art ---ARPA students "competition"

- 10 days of intensive interactions through Vidyo
- CMS & ALICE virtual visits
- Visit of the local institute
- l month of brainstorming and pieces production
- Price ceremony during de conference break









# The LHCP 2019 event

#### --- Science ---Mexican Institutes & the LHC

- GOAL: highlight Mexican contributions towards their public & officials
- A must: the 4 canonical "LHC selfie spots"
- For the rest: adapt to last minute unforeseen issues & be creative!















#### --- Education ---**Students & Teachers**

- Training conference staff students
- One day workshop with Mexican teachers who participated to the CERN teacher's program
- Lecture by Mexican artist [No schools for that one]

Claire Adam-Bourdarios 10/07/2019

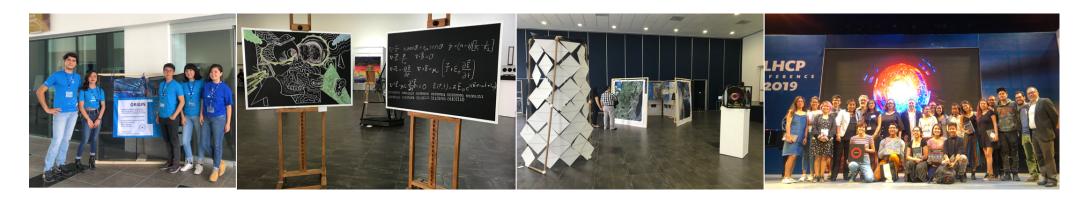


# Flexibility & improvisation are part of the game Understanding what others bring takes months

https://originnetwork.web.cern.ch/content/origin-south-east-europe



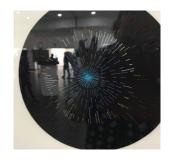
https://originnetwork.web.cern.ch/content/lhcp-2019-mexico



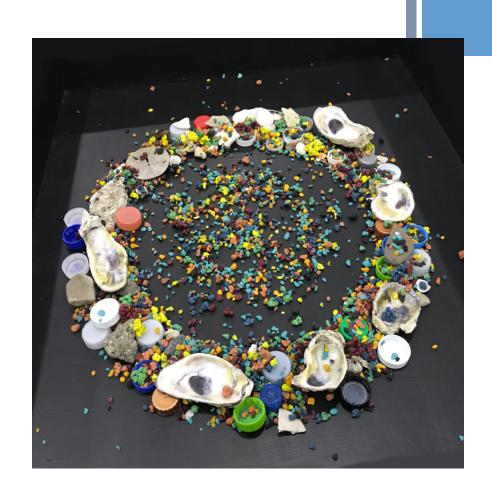


## 21st century themes & wonders will inevitably come into the game

- Higgs, Higgs, of course ...
- Collisions, data & event visualization of course ...
- But got to identity, curiosity, stereotypes, roots, creation







"Excitar al Vacío", by Maria José Negrete

### Lesson 3

#### Is the community ready?

- + Discover unexpected support and interest from colleagues
- Art projects do not fit in the classical approval & planning schemes
- + Forces scientists to revisit fundamentals and the implication of their research
- Need to avoid pitfalls such as definition of art and "good artists"
- Move from illustration to openended inter-disciplinary research?



"Looking outward", by Yael Ochoa

## Conclusion(s)

#### Long live ORIGIN!

- Building up on the very solid art@CMS foundations
- Integrating different individual approaches and collaborations cultures.
- The longest & most exciting part of the preparation is to learn to work together

#### Art & HEP

- Art-science is trendy and beneficial to "reach-out" very different publics.
- HEP is ramping up. But are we ready for a genuine "stereotype collider"?







### Addendum: credits

10/07/2019

# + The scientists team



- Irais Bautista Guzman (LHCP Conference chair BUAP Alice group)
- Luis Flores Castillo (Artist mentor Hong Kong ATLAS group)
- Claire Adam-Bourdarios (ORIGIN co-coordinator for ATLAS)
- Arely Cortes Gonzalez (Students training CERN ATLAS fellow)
- Lorenzo Diaz Cruz (Art students host in BUAP Theory group)

# + The artists team



- Jesus Pérez Acosta (Art competition curator ARPA)
- Yasmin Alejandra Pineda Tellez (Exhibit curator ARPA)
- Pedro Trueba (Guest artist)
- The 18 art pieces authors!



# + The educators team



- Diana Exzacarias Montalvo (Teachers coordinator TecNM)
- Nadia Leal (Students crew coordinator BUAP)
- Remote connections:
  - CMS and ALICE Virtual Visits teams
  - Arturos Sanchez Pineda (Open data)
  - Jeff Wiener (CERN teacher's program)



## Many thanks to

- LHCP chairs, for their early trust and strong engagement
- The ATLAS management, for embarking into the ORIGIN adventure
- ORIGIN co-coordinators, for stimulating push & discussions
- Riccardo Maria Bianchi, for his design and constant support
- LOG group @CERN, for their poems and more

