

18th IPPOG Meeting – CERN– 29 Nov 2019

## Exhibits & Exhibitions WG Report

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### Hot Air Balloons Exhibition at Château-d'Oex

#### Summary

- A museum that initially had nothing to do with science, particle physics, accelerators, CERN, the Universe, etc. was thinking about its next temporary exhibition - initially only Michael's art was an attractor.
- A narrative with local relevance allowed to bring the visitor, who expected balloons, to get driven into particle physics and the modern understanding of the Universe in an easy to follow story starting with balloon flights in 1909.
- Adding works of art related to the science shown adds another level of how to emotionally involve visitors in the subject.
- Visitors were taken in unexpectedly and were immediately fascinated.
- The museum attracted many more visitors than in other years.
- The museum is planning to prolong this temporary exhibition by one more year till March 2021!
- Even in a geographically detached and rural location, particle physics enacts fascination!



Physics Outreach Group

# Art & Science Exhibition in Zagreb Museum of Contemporary Art - 2022

#### Art and Science Exhibition

- Art connected with fundamental science
- Science from ORIGIN network
  - CERN, Gravitation waves, Muongraphy, ICECUBE, DUNE, astro-particle et al
- Workshops for students
  - From kindergarten to universities
  - Cultural Collisions format (see Michael's talk)

## Bulding on the experience from ORIGIN and Art@CMS

- Exhibitions already organised in the region Contacts with musem already established
- They are very enthusiastic
- Starting the project very soon (for 2022)





# ORIGIN cross-disciplinary science education, engagement & networking

#### Supported by

ATLAS, ALICE, CMS, LHCb, LIGO, VIRGI, ICEcube, DUNE, Muography, Perimeter Institute, Canadian Light Source, and other international partners

#### Objectives:

cross-disciplinary science engagement & networking with special emphasis on education

#### THINK globally ACT locally -

- support our science community where they need support -> at their HOME country
- "Arts as a tool to engage actively empower them to own the topic and allow them to contribute"

Scientific Methodology triggers Critical Thinking

**Art fosters Creative Thinking** 











# Recent Lessons in Engagement Abroad at the CERN Media Lab











## Josephine's Personal Particle Detector











## **Exhibits for Post-LHC Machines**

#### The Code of. The Universe

- A photographic travelling exhibition
- Pilot project following recommendation by CERN's Host States
- Highlight the main physics questions, the key technologies to explore them and the societal impact (with a focus on areas covered by the FCC study)
- Co-developed with Lammerhuber editions
- Multilingual content & online website
- Cities opened so far: Vienna, Wiener Neustadt, Graz, Brussels, Grenoble coupled to conferences & public events

#### Questions - Future Steps

- How can we communicate about future RIs to the general public?
- Which are the topics we need to include as part of an exhibition (physics, technology, applications, socio-economic impacts)?
- How can we make exhibitions more interactive?









## Common Themes and Thoughts

### Common Themes of ORIGIN / CERN Traveling Exhibitions

- Exhibitions support local engagement, local champions
- Create points of contact to local networks
- Local organisation is essential and desired

### Take Aways

- Key points IPPOG made to EPPSU 2020 (published note, discussion with WG5)
  - Global support for science needs to be fostered and supported
  - Post-LHC projects will require major public support
  - IPPOG serves as a means to foster and optimise local involvement with global strategies
- Efforts like ORIGIN and CERN Traveling Exhibit are directly in line with these points
  - Both create and support local networks of artists, scientists, educators, stakeholders
  - Both promote science through excitement of current research, while embracing local culture
- There is much room for IPPOG to become involved
  - We need to be involved in strategic planning
  - This does not mean taking ownership, but it means securing support

