



Napoli 2 February 2016

Art & Science across Italy

This is a summary of the “Art & Science across Italy” project organized by Istituto Nazionale di Fisica Nucleare and CMS experiment at CERN under the umbrella of the CREATION Horizon 2020 project.

A. Aims and Objectives

The main objective is to introduce particle physics and the research done at CERN and at the INFN particle physics laboratories in the Italian high schools, involving teachers and students.

Art will be the “common language”, used to put in contact the high school students and scientific world.

Events and meetings between physicists and groups of students/teachers will be organized with the aim of describe the activities done by INFN/CERN researchers and all the work needed to build a very large scientific program as LHC.

During this educational path the students will have the possibility to interact with physicists, discuss with them, visit their laboratories (INFN and CERN), visit National Science Museums and produce artworks related to the particle physics world.

B. Plan

Here will be briefly described the plan to get the objectives described.

The “Art and Science across Italy” project is based on an itinerant core event consisting of: educational meetings/events, creative phase and art & science exhibition called “I colori del Bosone di Higgs”. The exhibition will be based on the art@CMS collection, on some of the interactive multimedia installations developed by INFN in collaboration with artist and interaction designers (<http://home.infn.it/en/media-outreach/mostre/installations>) and on most of the artworks produced by the student groups participating to the this project.

Four Italian cities (Florence, Milan, Napoli and Padua/Venice) have been selected to act as main areas of the project. Art schools and lyceums (humanities and scientific), located in the areas, will be contacted to explore a common interest in art and science and some of them will be selected as reference schools, with the goal of creating working groups made by a maximum of 3 students.

The best artworks, developed by the student groups of each main area will be awarded and exposed at the “I colori del bosone di Higgs” exhibitions.

C. Program

Here the sequence of steps foreseen:

- Educational phase: the coordination committee of the project will organize seminars, events, visit at the INFN laboratories and at Science Museums.
Students will have full access to particle physics outreach and educational contents (publications, pictures, movies...) prepared by INFN and CERN.
- Working Group: will be composed by 3 students and one or more teachers. The students can belong to different classrooms or schools and should have different skills (humanities, scientific or artistic).
- Creative phase: at each working groups will be asked to design and realize an artwork related to the arguments discussed during the educational phase, with the help of teachers, INFN researchers and artists. Students are completely free to choose any of the possible contemporary art forms to realize their artworks.
- Artworks selection and awards: An Award International Committee will select the best “local” artworks (one or more per city) and the best three “national” artworks. Recognitions and prizes will be given to the local and national winners. The best local artworks will be shown at the “I colori del bosone di Higgs” exhibition.
The working groups that have realized the three best national artworks will be awarded with the possibility to participate to the 2018 CERN master-class (3-4 days long), fully supported by the project. At same time their artworks will be shown at the final exhibition in Napoli and will become permanent artworks of the art@CMS collection of the CMS experiment at CERN.

D. Management:

The Coordination Committee is the technical and managerial body of the project. It will be acting as the implementation manager, responsible for the coordination and organization of all the activities during the lifetime of the project.

E. INFN’s role in the project

INFN will be an affiliated partner of the Creation Horizon 2020 project and will be a major actor in the “Art & Science across Italy” project. INFN will run the project with its wealthy experience in designing and delivering public engagement activities, in designing exhibitions and multimedia installations at the crossing between art and science.

INFN will organize most of the outreach events and will support the exhibitions for what concern the Museum/space setup and installation of the artworks collection, even thanks to a very developed network of local sections.

F. CERN’s role in the project

To be written with the help of Rolf and Monica

G. CMS’s role in the project

CMS will play an important role through the Creation Horizon 2020 project and the outreach program, providing an important support in the organization Italian project and in some of the outreach activities.

H. INFN’S Motivations and interests in the project

INFN acknowledges the importance of the content of this proposal, which is very much in line with the kind of outreach activities that INFN has promoted for many years. The emphasis on

grassroots science communication initiatives, the preference for unusual locations for science communication (as contemporary art museums, theatres, art festivals...) and in general the focus on the public and students, instead of scientist, perspective are some of the ingredients of the project, that resound with the INFN public engagement strategy.

It is also an opportunity to increase INFN visibility and participate to the development of science communication and public engagement in collaboration with CERN and Italian cultural institutions.

H. Budget and schedule

The project will have duration of 2 years (2016-2018) and will be based on a core event, located in the 4 selected main areas.

INFN and CREATION will mainly support the project with the help of CERN, CMS experiment, local Italian organizations and sponsors.

Signature

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