

**Le rythme de l’espace**

**Il ritmo dello spazio**

**The Rhythm Of Space**

**Art et Science de Marconi aux ondes gravitationnelles**

Curator Stavros Katsanevas

**12 October – 8 Ddecember 2019**

**Museo della Grafica – Palazzo Lanfranchi, Pisa**

The exhibition offers a fascinating journey through art and science against the background of exciting discoveries in contemporary physics.

On August 14, 2017, the three gravitational wave interferometers LIGO and VIRGO detected the signal produced by the coalescence of two black holes. The era of gravitational astronomy began thanks to triangulation and the consequent localization in the sky of this source. Only three days later, the signal produced by the merger of two neutron stars triggered a huge research campaign in which hundreds of Observatories were involved worldwide. This second event was fully considered the dawn of the so-called multi-messenger astronomy. Einstein's theory of general relativity, which predicts that every violent phenomenon in the universe produces vibrations in space-time, has had an extraordinary confirmation.

The detection of gravitational waves allows us to face from new perspectives the problem of the nature and structure of space-time and matter, the notions of origin and horizon, the role of information and representation, the plasticity and resilience of objects , also touching on aspects related to the individual and more generally to the relationship of man with the Cosmos, that is the Universe, the Earth, the Society.

Born within the project "Univers 2.0", started in 2017 with the support of the Carasso Foundation, the exhibition is the result of the cross-reflection of some artists of international importance with scientists and intellectuals (Valerio Boschi , Arnaud Dubois, Ersi Krouska, Marc Lachièze-Ray, Alain Letailleur, Pierre Legrain, Dorothea Marciak, Roger Malina, Vincenzo Napolano, Stavros Katsanevas, Christian Spiering, Alessandro Tosi, Yves Winkin, Heinz Wismann). The exhibition path, with its evocative conceptual and emotional impact, presents in fact installations, sculptures, videos, graphic works and photographs taken by

**Gorka ALDA, Pavel BÜCHLER, Attila CSÖRG**[**Ő**](https://en.wikipedia.org/wiki/%C5%90)**, Raphaël DALLAPORTA, Raymond GALLE, Bertrand LAMARCHE, Liliane LIJN, Letizia DE MAIGRET, Aitor ORTIZ, Tomás SARACENO, Jol THOMSON**.

The detection of gravitational waves in fact directs towards a description of the Universe in multi-messenger form, or rather the awareness of being part of a cosmic network in which the vibrations of space-time, the "rhythm", the "sound" or the harmony of space are added to the millennial conception of the Universe as a sublime visual representation.

Special attention will be given to the historical forms of communication, through a room set up in partnership with the Marconi station of Coltano, with instruments for the emission and reception of radio waves, as well as a Galena crystal from the Giazotto collection (a special thanks to the Giazotto family). Two other rooms, presented in collaboration with the APC, in Paris, I2PI in Lyon and the INFN, will offer visitors an interactive experience dedicated to the deformation of space.

Curated by Stavros Katsanevas, director of the European Gravitational Observatory (EGO), the exhibition is promoted and implemented by EGO and the Museum of Graphics (Municipality of Pisa, University of Pisa), with the collaboration of the Centre National de Recherche Scientifique (CNRS) , of the National Institute of Nuclear Physics (INFN), of the Laboratory of Astroparticle Physics and Cosmology (APC) of Paris and the Endowment Fund for the Physics of the Universe, of of the Institute of Physics of 2 Infiniti (I2PI) Lyon, of the University Museum System of University of Pisa, with the patronage of the Tuscany Region and the support of the Carasso Foundation.

Exhibition website: https://sites.ego-gw.eu/ilritmodellospazio/

THE RHYTHM OF SPACE

ART AND SCIENCE FROM MARCONI TO GRAVITATIONAL WAVES

PISA, MUSEO DELLA GRAFICA

Palazzo Lanfranchi

Lungarno Galileo Galilei, 9 - 56125 Pisa (PI)

12 October - 8 December 2019

Curated by

Stavros Katsanevas

Assistance to the curator

Ersi Krouska

Organizational coordination

Alice Tavoni

Administrative coordination

Sabrina Balestri, Maria Cioni

Assemblies and fittings

ACME04 srl

Catalog

ETS editions

Editing of texts in French

Dorothea Marciak

Web Design

Sarodia Vydelingum

MUSEO DELLA GRAFICA

Scientific director

Alessandro Tosi

President

Virginia Mancini

Honorary President

Lucia Tongiorgi Tomasi

Referent for the Collections

Alice Tavoni

Administrative Coordination

Sabrina Balestri

Administrative Management

Massimo Baldacci, Maria Cioni, Alessandro Germelli, Sonia Raglianti

Educational laboratories and communication

Fabiana Fiorelli, Elena Profeti, Ilaria Tuci

Timetables

Monday - Sunday: 9.00 - 20.00

Tickets

Full price: € 9.00

Reduced: € 7.00

Information

Museo della Grafica

Tel .: (+39) 050 2216060

email: museodellagrafica@adm.unipi.it

www.museodellagrafica.unipi.it

Facebook | Instagram

#Ondegravitazionali #Black