



UNIVERSITÀ DEGLI STUDI DI TORINO

Direzione Generale

Area Relazioni esterne e con i media – Sezione Relazioni con i media

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Open Science

Starts from Turin the Challenge for the International Scientific Community to design a new apparatus for digital radiographs and computerized tomography for cultural heritage.

The **Department of Physics at the University of Turin**, the **National Institute of Nuclear Physics (INFN)** and the **Conservation and Restoration Centre “La Venaria Reale” Foundation (CCR)** have designed and implemented in the period 2010-2013, thanks to a funding from the **Piedmont Region**, a unique apparatus for the realization of **X-ray radiographs** and **X-ray tomography** on *large in size* artworks.

The information obtained is useful for their study and as **diagnostic for restoration** and **conservation** purposes.

Over the last few years, it has been made dozens of tomographs and hundreds of radiographs of artworks from all over Italy, including prestigious works such as the “Double Body” of Pietro Piffetti (1738), commissioned by the Quirinale. The Crucifix attributed to Donatello coming from the Church of Servants of Padua, as well as canvases and paints of virtue size larger than 4 meters.

In recent years, the University of Turin has started a path that acknowledges the value of transition from a closed-to-open science model. The University of Turin has activated scientific projects and collaborations with public bodies and companies within the paradigm of Open Science, focusing on subjects of great economic and social impact.

In this context starts **from Turin**, on the occasion of the **G7 Science**, an **open invitation to the international scientific community** to take part in a large-scale research to collaborate **to design and implement**, according to a model of **open innovation**, a **new digital radiography apparatus and computer tomography for cultural heritage**.

The University of Turin, INFN through its CHNet network and the CCR **will make available to all international scientific community the entire project documentation** (plans, sketches, calculations, images, tests) and their know-how to create, with a spirit of collaboration, a community of researchers and companies dedicated to the design and implementation of the new research infrastructure.