

art'14

11 th International Conference
on non-destructive investigations and microanalysis for the diagnostics
and conservation of cultural and environmental heritage

June 11-13 2014 Museo Arquelógico Nacional



IND 86

THE NEW X-RAY IMAGING FACILITY AT THE CENTRO CONSERVAZIONE E RESTAURO “LA VENARIA REALE”

Giorgia Mila, University of Torino, via P. Giuria, 1 10125 Torino (IT), mila@to.infn.it

Fauzia Albertin, INFN, via P. Giuria, 1 10125 Torino (IT), fauzia.albertin@gmail.com

*Paola Buscaglia, CCR “La Venaria Reale”, via XX Settembre, 18 10078 Venaria Reale (IT)
paola.buscaglia@centrorestaurovenaria.it*

Giovanni Dughera, INFN, via P. Giuria, 1 10125 Torino (Italy), dughera@to.infn.it

*Mauro Gambaccini, University of Ferrara, via Saragat 1, 44122 Ferrara (IT),
mauro.gambaccini@unife.it*

Alessandro Lo Giudice, University of Torino, via P. Giuria, 1 10125 Torino (IT), logiudic@to.infn.it

Paolo Mereu, INFN, via P. Giuria, 1 10125 Torino (Italy), paolo.mereu@to.infn.it

*Marco Nervo, CCR “La Venaria Reale”, via XX Settembre, 18 10078 Venaria Reale (IT)
marco.nervo@centrorestaurovenaria.it*

Nadia Pastrone, INFN, via P. Giuria, 1 10125 Torino (IT), pastrone@to.infn.it

Ferruccio Petrucci, University of Ferrara, via Saragat 1, 44122 Ferrara (IT), petrucci@fe.infn.it

Francesco Prino, INFN, via P. Giuria, 1 10125 Torino (IT), prino@to.infn.it

*Luciano Ramello, University of Piemonte Orientale, viale Teresa Michel, 11, Alessandria (IT),
ramello@to.infn.it*

Alessandro Re, INFN, via P. Giuria, 1 10125 Torino (IT), alessandro.re@unito.it

Roberto Sacchi, University of Torino, via P. Giuria, 1 10125 Torino (IT), sacchi@to.infn.it

Abstract

Several non invasive techniques are applied in the field of preservation and restoration of artefacts which exploit the peculiar properties of the interaction of X-rays with matter. Among these, radiography and tomography are well established while the K-edge method for the analysis of the distribution of pigments on canvas is being proposed.

In the context of the neu_ART project, an imaging laboratory has been developed at the