Fig. I. The triptych the *Last Judgement*, National Museum in Gdańsk (inventory number MNG/SD/413/M). Photo R. Stasiuk, Archive of Faculty of Conservation, Academy of Fine Arts, Warsaw
Fig. II. XRF and XRD/XRF setup during the analyses in the museum, courtesy Philippe Walter

Fig. III. XRD identification of lead tin yellow (type I) used to realize the mantel of the Angel. It was mixed with vermillion (cinnabar) to obtain the orange tint, courtesy Philippe Walter
Fig. IV: The Redeemer portrait on the scales of the wings of Archangel Michael, painted on a tin plate, and glued as an insert on to the original. This is considered to be a portrait of Tommaso Portinari. a) X-radiography; b) VIS image; both by R. Stasiuk, Photo Archive of Faculty of Conservation, AFA, Warsaw, 2010.
Fig. V. Chemical mapping by XRF of the head of Portinari painted on a tin foil. 60 x 70 pixels and a 1 mm step between each point of measurement, 1 s per point, courtesy Philippe Walter
Fig. VI. Chemical mapping by XRF of a complexion area (35 x 40 pixels, step de 1 mm and 1 s per point), courtesy Philippe Walter
Fig. VII. Changes in the portrait of Archangel Michael: a) VIS light; b) X-radiography showing a first drawing with open eyes as in the Beaune polyptych by Rogier van der Weyden. Photo R. Stasiuk, Archive of Faculty of Conservation, AFA, Warsaw; c) IRR image at 1200 nm and d) MNIR image at 2265 with the final version. Photo M. Patti, courtesy CHARISMA-MOLAB, Archive of Faculty of Conservation, AFA, Warsaw
Fig. VIII. Caterina Tanagli portrait as wife of donor (Angelo Tani) on reverse side of triptych; results of SMIRR (1000, 1700, 2265 nm) showing alla prima proto-Renaissance manner of painting, minimal underdrawing and the VIS image of this figure. Photo M. Patti, courtesy CHARISMA-MOLAB, Archive of Faculty of Conservation, AFA, Warsaw
Fig. IX. Compositional changes to the right of the figure of Christ: a) VIS image of the composition; b) underdrawing with 1st version – the Angels with Arma Christi, MNIR at 2265 nm; c) 2nd composition showing the 1st portraits of Apostles, X-radiography; d) 3rd version – portraits of Apostles, MNIR at 2265 nm. Photo M. Patti, courtesy CHARISMA-MOLAB, Archive of Faculty of Conservation, AFA, Warsaw.