

XRD Analysis Results



**Panagia (Virgin Mary)
Hodegetria**

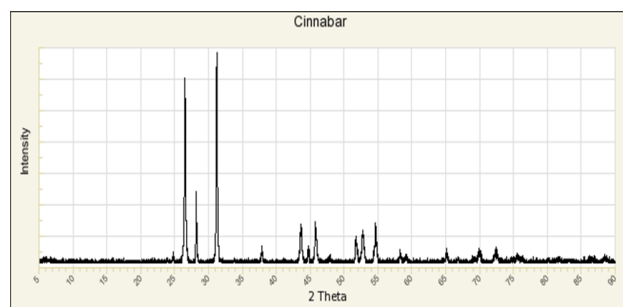
The SciArt Project
2024

Results Report

Point of Interest 1: Red painting layer, from the elbow of Virgin Mary

This is the XRD pattern of the red paint layer from Point of Interest 1.

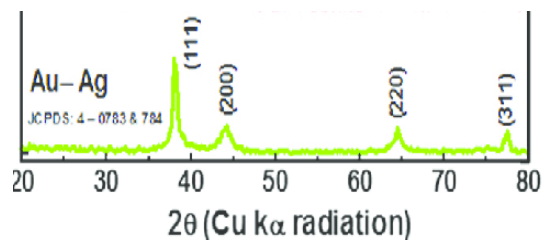
The red pigment used for this paint layer is cinnabar (HgS).



Point of Interest 2: Golden campus of the icon

This is the XRD pattern of the gold layer of the sample collected from Point of Interest 2.

The method confirms that it is a gold-silver alloy.



Point of Interest 3: Textile sample from the left edge of the icon

This is the XRD pattern of the fibers collected from Point of Interest 3.

Cellulose is identified, which is characteristic of plant-based fibers.

