

Investigating methods of minting Ancient Greek silver plated copper coins: studies in Neutron Tomography, Texture and Phase Analysis.

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Neutron tomographic, texture and phase analyses undertaken on the Neutron Beam Instruments Dingo, Kowari and Echidna have been employed to investigate plated silver coins minted in Athens and in the Greek colonies of Kroton and Metapontum (Southern Italy) during the 6th and 5th centuries BC. The investigation aims to define the plating method by characterising the manufacturing conditions and morphological and structural features of the specimens. Thickness maps of the silver plating and porosity give an indication on the similarity of the production techniques. The texture analysis gives an indication on the mechanical processes and temperature under which these coins were struck. The status of these coins is uncertain: were they official issues by state-authorities during periods of silver shortages or the product of ancient or modern counterfeiters?

Level of Expertise

Experienced Research

Speakers Gender

Male

Do you wish to take part in the poster slam

Yes

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