

IAEA Workshop on Innovative Approaches of Accelerator Science and Technology for Sustainable Heritage Management

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Ion Beam analysis of Phoenician silver coins

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In this paper we will present the elemental analysis results on silver coins and artefacts using Ion Beam Analysis. We will explore the challenges of applying non-destructive methods on the surfaces of archaeological metals. We will compare three methods of analysis, namely PIXE, SEM-EDS and XRF and present how we resolved problems of surface alterations. The results obtained have a great impact on the archaeological records and we will explore how these contributed to our knowledge on ancient coin systems.

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