

Study of archaeological object by neutron resonance capture analysis

Tuesday, 16 April 2019 17:00 (2 hours)

Neutron resonance capture analysis is based on the registration of neutron resonances in radiative capture. One of the main advantages of this method is nondestructive property. The investigations were carried out at the Intense Resonance Neutron source (IREN) in Frank laboratory of Neutron Physics. The gamma-quanta liquid scintillator detector was used at this experiment. The analyzed sample, in our case it was horse figurine, was provided by the Institute of Archeology of the Russian Academy of Sciences. The artifact is the silver vessel's handle from the 1 Chebotarev-V excavations burials on the Lower Don (rich female burial). This burial ground dates from the Sarmatian period (about 1st century AD).

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