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Integration of arts and sciences by using negative muon non-destructive analysis at J-PARC MUSE

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We have been developing a non-destructive, position-selective, and quantitative multi-elemental analysis method by using negative muons at J-PARC MUSE. Our final goal is to establish a platform of the integration of arts and science, where historical relics can be analyzed non-destructively, by combining quantum beams techniques utilizing muons, neutron or photons.

At the symposium, the current status of the negative muon non-destructive analysis held at J-PARC MUSE, on Japanese old coins (Koban, Cho-gin), bell-shaped bronze vessel of the Yayoi period, and Ogata Koan's sealed medicine etc. will be introduced.

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