

15th International Conference on Muon Spin Rotation, Relaxation and Resonance



Contribution ID: 169 Contribution code: **P-MON-19**

Type: **Poster**

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

Monday, 29 August 2022 18:40 (20 minutes)

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.

Primary author: MIYAKE, Yasuhiro (KEK)

Co-authors: Dr TAMPO, Motonobu (KEK); TAKESHITA, Soshi (High Energy Accelerator Research Organization (KEK)); UMEGAKI, Izumi (Toyota Central R&D Labs., Inc.); Prof. SHIMOMURA, Koichiro (KEK); STRASSER, Patrick (KEK); Prof. KUBO, M. Kenya (International Christian University); Prof. SAITO, Tsutomu (National Museum of Japanese History); Mr NINOMIYA, Kazuhiko (Osaka University); Mr KUTSUNA, Takahiko (Museum of Nature and Science)

Presenter: MIYAKE, Yasuhiro (KEK)

Session Classification: Posters

Track Classification: Muonic x-rays