1. Title (both in English for a domestic workshop/conference)	ミューオン核物理・核データ —基礎研究から応用研究へ / Muon nuclear physics and muon nuclear data, from fundamental research to application of muon
2. List of members of the organizing committee with full name and affiliation	Dai Tomono (Osaka University/KEK IMSS) Shoichiro Kawase (Kyushu Univerfsity) Naritoshi Kawamura (KEK IMSS/ J-PARC) Akira Sato (Osaka University) Megumi Niikura (RIKEN) Kazuhiko Ninomiya (Hiroshima University) Yukinobu Watanabe (Kyushu University)
3. Period of workshop / conference	from 16/01/2025 to 16/01/2025
4. Venue	RCNP (main building, large lecture room)
5. Description of the results	Recently many "muon nuclear physics" experiments have been intensively proposed at muon facilities all over the world, including RCNP, Osaka University and J-PARC MLF. Non-destructive elemental analysis based on muonic X-ray spectroscopy has been recently applied in a wide range of fields from radiochemistry, space earth science, and archaeology to industrial applications. Furthermore, in the study of semiconductor soft errors caused by cosmic-ray muons, accelerator muons are alternatively used to understand not only error rates but elementary processes. These physical processes underlying these applied studies are closely related to fundamental studies of nuclear physics. This workshop focused on such physics processes of negative muons. We invited 10 various scientists specializing in fundamental, applied, and theoretical research. The discussions included topics for molecular, nuclear, particle physics spectroscopy using high-resolution detectors, nuclear structure studies, chemical effects, investigation of organic materials, and catalyzed fusion. Some were using not only accelerator muons but also cosmic-ray muons, and theoretical studies. These talks were followed by lively discussions with approximately 50 participants. We recognized that development of "muon nuclear data" about elementary processes underlying these experiments is very important for further understanding of the phenomena. This workshop gave a valuable opportunity for our new insights of muon nuclear physics.
6-1. Numbers of participants from overseas	0
6-2. Numbers of male participants	45
6-3. Numbers of female participants	5

7. URL of the webpage	https://indico.rcnp.osaka-u.ac.jp/event/2474/
8. URL and/or DOI of the (online) proceedings	