

Report on the 14th AONSA Neutron School

The 14th AONSA Neutron School was held at J-PARC during November 17-21, 2025, jointly with the 9th Neutron and Muon School. This school was organized by The Japanese Society for Neutron Science (JSNS), Society of Muon and Meson Science of Japan (JMMS) and nine facilities associated with neutron and muon sciences, with the cooperation of International Atomic Energy Agency (IAEA) and sponsored by International and Inter-institution Network for Accelerator Science to Next Generation (IINAS-NX), International Society for μ SR Spectroscopy (ISMS) and J-PARC MLF User Society. Dr. Y. Otake was the School Principal and Dr. S. Machida was the Chair of the Local Organizing Committee.



The school received 69 applications from graduate students and young researchers from various countries [Japan (11), China (29), Indonesia (9), Kazakhstan (4), Nepal (3), Taiwan (3), India (2), Malaysia (2), Philippines (1), South Korea (1), New Zealand (1), Pakistan (1), France (1), Brazil (1)]. Due to capacity limitations for hands-on training, a review process was conducted, resulting in 38 participants attending the AONSA school. Participants learned about the characteristics of neutrons and muons and their experimental methods through lectures by leading

researchers active worldwide. A total of 15 lecturers were invited, and 10 lectures related to neutron sciences were held. Furthermore, participants applied the theories to actual experiments through hands-on training using the instruments in the J-PARC MLF. Participants were assigned to one of 11 instruments (Neutron: 8, Muon: 3) and conducted a 1.5-day experiment. On the final day, all participants presented the results obtained during their hands-on training. By presenting their own work and observing presentations from other participants who trained at different instruments, their understanding of neutron and muon science would have deepened.

At the school's closing ceremony, certificates of achievement were presented to the participants. Based on their experiences at this school, the participants are expected to contribute to the future of related fields.



Shinichi Machida, CROSS
(Chair of the Local Organizing Committee)