

Report on “the 12th AONSA Neutron School”

The 12th AONSA Neutron School was virtually held at China Spallation Neutron Source (CSNS), from November 21-23, 2022, after 2-year delay due to the COVID19 epidemic. CSNS, a rising neutron facility, has been opened to users since August of 2018 with three day-one neutron instruments. CSNS really expected an onsite school to bring the graduate students and young researchers to the hands-on experiments and data analysis. Unfortunately, the situation against the COVID19 became worse around CSNS just before the school opening, CSNS had to give up the onsite sessions, and to have a fully virtual meeting.

The 12th AONSA Neutron School was opening in a ZOOM meeting room at 9:00 am of Nov. 21 after Prof. Dongfen Chen and Prof. Fangwei Wang gave a short welcome on behalf of the AONSA and CSNS. Three-day course is mainly on the fundamentals of neutron scattering, neutron powder diffraction, pair distribution function analysis, magnetic scattering, SANS and neutron reflectometry. Nine experts were invited as teacher: Mr Qingzhen Huang, a senior scientist of National Institute of Standard Technology (NIST), USA, gave a lecture on fundamentals of neutron scattering; Prof. Takashi Kamiyama, CSNS (China) and KEK (Japan), on neutron powder diffraction; Prof. Martin Dove of Sichuan University (China) and Queen Mary University of London (UK), on pair distribution function; Prof. Taku Sato of Tohoku University, Japan, on magnetic scattering; Dr. Anna Sokolova and Dr. Josh Marlow of ANSTO, Australia, on SANS; and Dr. Stephen Holt, Dr. Anton Le Brun and Dr. Tzu-Yen Huang of ANSTO, Australia, on neutron reflectometry.

Also Prof. Tianjiao Liang gave a talk on the status, progress and future plan of CSNS, and Prof. Junrong Zhang talked about how to prepare and submit a proper proposal to CSNS in the first afternoon of the school.

The School recorded 1455 registrants from 20 countries with the online audiences from 130 to 378.

