

Meeting challenges in the time of neutron shortage: Using complementary experimental techniques for magnetism research at the large-scale facilities

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The science community faces a challenging situation to maintain sustainable research with neutron methods at the moment. While neutron scattering is an indispensable microscopic probe for the investigations of magnetic order and spin excitations, there are complementary techniques at the large-scale facilities that are also suitable for magnetism research, such as element-specific magnetic resonant X-ray scattering at the synchrotron radiation facilities, and muon spectroscopy at the muon facilities. In this short talk, I will give an overview about our recent activities at the DNS group as well as the experience and lessons in the studies of topological and frustrated quantum magnets using these complementary experimental techniques at various synchrotron radiation and muon facilities in the world, with the emphasis on their unique strengths as well as their complementarities to neutron scattering.

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