

Neutron Scattering at HANARO

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Thanks to their magnetic moment, neutrons have been instrumental in studying magnetic materials, from the spin structures of simple antiferromagnets to the spin fluctuations in high-temperature superconductors. Since neutron scattering requires powerful research reactors or spallation neutron sources, the method has been available only in select countries. HANARO, Korea's large-scale research reactor with a neutron flux comparable to those of the most powerful research reactors around the world, is one of those places where serious neutron scattering research of magnetic materials can be performed. In this tutorial, we discuss the very basics of neutron scattering and introduce the suite of instruments available or being built at HANARO. Access to the facility will also be discussed.