

A brief history of neutron scattering and more

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After 1st discover of a neutron in 1932 by Chadwick [1932.02.17 published to Nature “Possible existence of a neutron”], the neutron scattering is the essential part in the not only modern material research but also fundamental sciences. In this presentation, I will go over a brief history of neutron science by illustrating the monumental experiments using neutrons based on my own perspective. Furthermore, I will also introduce large scale facilities around the world (including J-PARC facility) to produce neutrons for general purposes including some basic principles of neutron scatterings. If time permits, I will introduce polarized neutron reflectometry which is one of the unique tools to study thin-film magnetism.



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Photo taken at Takenoya, Ropponmatsu.

