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## Welcome to VNF (Virtual Neutron Facility)!

In this web service facility, you can run virtual neutron experiments. In a virtual neutron experiment, virtual neutrons are generated from a virtual neutron moderator, guided by virtual neutron guides, scattered by a virtual sample and sample environment, and intercepted by detectors.

You can do your experiments on a variety of neutron instruments, both actual physical instruments and conceptual, nonphysical instruments

You can also create your sample and predict its neutron scattering properties by calculating its structure or dynamics. For example, the material behaviors calculated by ab initio or molecular dynamics methods become scattering kernels that can be used in the sample simulation part of your virtual experiment.

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