

Visual analysis of dynamic processes



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Advanced visualization of neutron scattering data

The combination of large multi detector neutron instruments that measure large areas of reciprocal space and collecting neutron scattering data in event mode provides facility users with new opportunities to investigate the structure and dynamics of materials

Collecting data in event mode allows the user to probe $S(q,w)$ with a continually varying control parameter such as sample temperature, pressure or applied field. It is increasingly common to generate large event mode data sets that form a data volume of the scattering function with the control parameter.

In this talk the use of parview to visualize data volumes from neutron scattering experiments will be discussed with respect to:

1. Packaging paraview in a user application.
2. Data formats to maximise performance.
3. User interface considerations for non expert users.
4. Generating toolkits for domain specific applications in direct geometry spectroscopy

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