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**Preferred type of communication:** Oral

**Topics:** “Neutron Instrumentation, Optics, Sample Environment, Detectors and Software”

**Title (plain text only):** WebApp for automated data reduction

**Title (formatted text):** WebApp for automated data reduction

Here report on a new Web Application (WebApp) for the automatic reduction of data as they come of beamlines at the ISIS facility. This WebApp was inspired by the SNS web interface [1] and is using many of same technologies. The ISIS autoreduction WebApp will go live March 2015.

There are a number of scientific drives for the automated reduction of data as they come of beamlines, where the main drivers are to give users of neutron facilities access to reduced data seamlessly and faster. The latter driver comes into play when handling large number of runs that all need to be processed to produce one reduced data. Rather than waiting for all such runs to complete and then reduce these runs, the reported automated reduction service allows each of these runs to be processed as they are completed and the final reduced data to be conveniently presented to the user.

This presentation will provide a number of demonstrations, using ISIS data and Mantid [2] data reduction.

**References**

[1] 2014 IEEE 10th International Conference on eScience, DOI 10.1109/eScience.2014.31

[2] O. Arnold, et al., Mantid—Data analysis and visualization package for neutron scattering and μSR experiments, Nuclear Instruments and Methods in Physics Research Section A, Volume 764, 11 November 2014, Pages 156-166