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Mantid, A high performance framework for reduction and analysis of neutron scattering data JON TAYLOR, ISIS STFC, O. ARNOLD, Tessella PLC, J. BILHEAUX, ORNL, A. BUTS, ISIS STFC, S. CAMPBELL, M. DOUCET, ORNL, N. DRAPER, Tessella PLC, R. FOWLER, STFC, M. GIGG, Tessella PLC, V. LYNCH, ORNL, A. MARKVARDSEN, K. PALMEN, P. PARKER, ISIS STFC, P. PETERSON, S. REN, M. REUTER, A. SAVICI, ORNL, R. TAYLOR, R. TOLCHENOV, Tessella PLC, R. WHITLEY, ISIS STFC, W. ZHOU, J. ZIKOVSKY, ORNL — The use of large scale facilities by researchers in the field of condensed matter, soft matter and the life sciences is becoming ever more prevalent in the modern research landscape. Facilities such as SNS and HiFNR at ORNL and ISIS at RAL have ever increasing user demand and produce ever increasing volumes of data. One of the single most important barriers between experiment and publication is the complex and time consuming effort that individual researchers apply to data reduction and analysis. The objective of the Manipulation and Analysis Toolkit for Instrument Data or MANTID [1] framework is to bridge this gap with a common interface for data reduction and analysis that is seamless between the user experience at the time of the experiment and at their home institute when performing the final analysis and fitting of the data.

[1] http://www.mantidproject.org/

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