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Enabling Grids for Neutron Science

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The Australian Nuclear Science and Technology Organisation (ANSTO) is constructing Australia's new 300 million Australian dollar (178 million euros) Open Pool Australian Light-Water (OPAL) reactor for neutron scattering research. Each neutron beam instrument from OPAL will provide a graphical user interface, known as GumTree, for performing data acquisition and online data analysis. GumTree is an Eclipse RCP based open sourced application which involves international collaboration with a number of major neutron and X-ray facilities. It is proposed that GumTree will connect to the Grid infrastructure in near future for computational intensive data analysis, via the DANSE framework. The DANSE project from Caltech has been awarded 11.97 million US dollar funding from the US National Science Foundation for providing software on distributed data analysis of neutron scattering. ANSTO also has a long-term commitment on providing eResearch services to the neutron community, such as archiving instrument raw data to the national grid, and gridifying existing instruments with CIMA middleware.

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