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Research Area: Spallation Neutron Source Data Analysis

The summer goal is to develop a graphical user interface (GUI) for the NL2SOL fitting code using NetBeans software. NL2SOL is being tested by Meili Chen to fit experimental backscattering data from the Spallation Neutron Source (SNS). When a user runs the program, the calculations will be sent from the SNS portal to the TeraGrid where they will be run on parallel processors. This GUI will be useful because it will allow the users to run the fitting program without having to know any information about parallel computing or the TeraGrid. A second goal is to learn to use the TeraGrid to debug running NL2SOL from the SNS portal.

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