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Alignment network measurement and adjustment software development at FRIB

The alignment group at FRIB has developed software to interface with our Leica AT402 laser trackers to take network measurements and perform real-time least squares network adjustment and statistical analysis. The software is named NETOBS (for Network Observation). NETOBS was written in MATLAB with the supporting Leica software development toolkit .dll file over the course of several years and compiled to run on any windows computer. NETOBS was written to expedite the time it takes to measure and analyze network measurement data. NETOBS greatly reduces network measurement monument naming errors and blunders, automates measurements, and does least squares adjustment analysis all in one software solution. Using NETOBS improved the network measurement campaign time to less than half that of previous campaigns.

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