

14th International Workshop on Accelerator Alignment



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THE APPLICATION OF SMOOTHING IN NSLS-II

Smoothing technique based on best-fit transformation is further developed during the running of NSLS-II, which is the only way to avoid the conflict between the requirement of good alignment quality and a minimum interruption of the running of beam lines.

Local deviations are generated as a first step for each interested component to avoid the approximation error caused by longitudinal alignment error. Multiple iterations can be performed to get better results and to process large amounts of data.

The application of smoothing technique is a success in NSLS-II so far. It can provide relative alignment deviation reports and propose one end of a specific girder to be adjusted.

Summary

Author: YU, Chenghao (Brookhaven National Laboratory)

Presenter: YU, Chenghao (Brookhaven National Laboratory)