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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 an minimum interruption of the running of beam lines.

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

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

### Summary

**Author:** YU, Chenghao (Brookhaven National Laboratory)

**Presenter:** YU, Chenghao (Brookhaven National Laboratory)