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Study of NSLS-II storage ring sextupole BBA measurement

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In designing the synchrotron light sources like NSLS-II, non-linear perturbation from the sextupoles are thoroughly studied to secure dynamic apertures large enough for the high-performance operation. Also, it can be well understood that the offsets in sextupoles affect the overall machine performance, closed orbit, linear optics, coupling and dispersion. In this paper, we introduce various beam based alignment (BBA) algorithms measuring the orbit offsets in sextupoles and compare the results.

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Footnotes

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Yes

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