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Section A: Accelerators, Spectrometers, Detectors and
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Volume 558, Issue 1, 1 March 2006, Pages 299-302

Measurement and correction of linear optics and coupling at
tevatron complex

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<https://doi.org/10.1016/j.nima.2005.11.027>

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Abstract

The optics measurements have played important role in improving the performance of Tevatron collider. Until recently, most of them were based on the differential orbit measurements with data analysis, which neglects measurement inaccuracies such as differences in differential responses of beam position monitors, their rolls, etc. To address these complications we have used a method based on the analysis of many differential orbits. That creates the redundancy in the data allowing to get more detailed understanding of the machine. In this article, we discuss the progress with Tevatron optics correction, its present status and future improvements.



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29.20; 29.27; 41.85.â''p

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Beam optics

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- 1 Work supported by the Universities Research Association Inc., under Contract DE-AC02-76CH03000 with the US Department of Energy.
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