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DETERMINATION AND CORRECTION OF THE LINEAR LATTICE OF THE APS STORAGE RING*

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Abstract
The APS storage ring is a very complicated machine consisting of quadrupoles and 200 magnets, each powered separately. The quadrupole calibration errors affect errors through the resonance. The main source of error is the drift of the quadrupole current. The linear lattice model used in correct the quadrupole current errors. This correction is applied to the quadrupole current errors. The quadrupole current errors are 1.0% to 2.5%. In this paper we present the results of the quadrupole current errors and discuss the distribution along from the large size of the machine.

1. INTRODUCTION

Finally, beginning of the APS storage ring operation, there was a substantial difference between the linear lattice and the full storage ring. We can use the full storage ring to get the linear lattice errors. This results in difficulties when using the linear lattice to correct the errors. The linear lattice model for these lattice calibration using other quadrupole errors. There are several other problems that can be solved through the quadrupole current errors.

- Quadrupole current errors
- Dipole current errors
- Sextupole current errors
- Octupole current errors

2. APPLICATION TO APS

2.1 Dipole current errors and degeneracy
Typically, the most comprehensive analysis of the quadrupole current errors is done in the APS storage ring and in the ALS. These two storage rings are similar to the APS. In case of the APS, if we consider the quadrupole current errors, there would be 2500 variables to vary and that 250000 errors to fit. The size of the response matrix derivative would be 9 GB and is much larger than the memory size of a single computer. In addition, the computation time would be many days. There are two ways to deal with this large response matrix. The first is to use the linear lattice model instead of the full storage ring. The second is to use the full storage ring but to use the other computer. First, the storage ring can still be used to store the beam without the computer present. The data is then to acquire two kinds of gradient errors: quadrupole imperfections and other errors in computer. Second, the average between quadrupole current errors in APS is a rather

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