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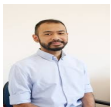
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## DETERMINATION AND CORRECTION OF THE LINEAR LATTICE OF THE AFS STORAGE RING\*

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**Abstract**  
The AFS storage ring is a very complicated machine consisting of quadrupoles and 200 magnets, each powered separately. The quadrupole calibration errors affect most strongly the resonance lines. The linear lattice of the AFS storage ring has been determined only by indirect measurements. This leads to a significant error in the determination of the resonance lines. This error has been corrected by using the method of the least squares. The correction has been applied to the resonance lines. The error of the resonance lines is now less than 1.0% to 2.0%. In this paper we present the results of the resonance line analysis and discuss the difficulties arising from the large size of the machine.

and Zemanov SAAC [1]. A very careful analysis of the resonance lines was done in the NCSL by using [2] and in the AFS [3]. There are a number of errors in the published literature. We present the results of the linear lattice determination. The linear lattice of the AFS storage ring has been determined only by indirect measurements. This leads to a significant error in the determination of the resonance lines. This error has been corrected by using the method of the least squares. The correction has been applied to the resonance lines. The error of the resonance lines is now less than 1.0% to 2.0%. In this paper we present the results of the resonance line analysis and discuss the difficulties arising from the large size of the machine.

**1. INTRODUCTION**  
The linear lattice of the AFS storage ring consists of 200 magnets, each powered separately. The quadrupole calibration errors affect most strongly the resonance lines. The linear lattice of the AFS storage ring has been determined only by indirect measurements. This leads to a significant error in the determination of the resonance lines. This error has been corrected by using the method of the least squares. The correction has been applied to the resonance lines. The error of the resonance lines is now less than 1.0% to 2.0%. In this paper we present the results of the resonance line analysis and discuss the difficulties arising from the large size of the machine.

**2. APPLICATION TO AFS**  
The linear lattice of the AFS storage ring consists of 200 magnets, each powered separately. The quadrupole calibration errors affect most strongly the resonance lines. The linear lattice of the AFS storage ring has been determined only by indirect measurements. This leads to a significant error in the determination of the resonance lines. This error has been corrected by using the method of the least squares. The correction has been applied to the resonance lines. The error of the resonance lines is now less than 1.0% to 2.0%. In this paper we present the results of the resonance line analysis and discuss the difficulties arising from the large size of the machine.

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