

FFAG 2007

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Type: **Oral presentation**

Sector Magnets –edge effect an exercise with the Polymorphic Tracking Code [PTC]

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Using the sector magnet wedges improves focusing in the vertical plane, reduces orbit offsets and tune variations of the non-scaling FFAG. There is a problem in a correct treatment of the wedge effect in the combined function magnets in the existing accelerator physics codes. To eliminate potential problems of the sector magnet with wedges a new magnet without wedges is constructed but using new bending angle. Comparisons between of these two kinds of sector magnets used in the non-scaling FFAG lattice are described.

Summary

This is one of the most important magnet properties in the non-scaling FFAG and their applicaitons. Tools used have to be correct.

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