

FFAG 2007

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Ray-tracing simulations in spiral sector FFAG magnets using Zgoubi code.

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The computer code Zgoubi calculates charged particle trajectories in electric and magnetic fields. It allows the study of complex sequences of optical elements such as dipoles, quadrupoles, arbitrary multipoles, RF cavities and radial sector FFAG magnets. A new optical element - spiral sector FFAG magnet - has been recently installed in order to perform ray-tracing simulations in such a structure. This paper describes how this method for modeling of the magnetic field in spiral scaling FFAG magnets has been developed. We then describe first simulation results for spiral FFAG lattices in the frame of the French RACCAM project which has to study and build a FFAG magnet for protontherapy.

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