

Study of a 270-degree non-dispersive bending system.

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A non-dispersive bending system is a magnetic system, which charged particles of different energies bend and move out from the system at the same point. Theoretical conditions for being a non-dispersive system are the dispersion function and its derivative vanish at the system exit. In this research, we study the non-dispersive bending system consisting of three sector dipole magnets for a total bending angle of 270 degree. Numerical calculations are performed using matrix formalism under a linear beam dynamics condition. A computer program is developed to track the electron trajectories. The study results will be used as a guideline for further design of the real bending system.

Summary

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