Race Track Muon Acceleration

A combination of the two different non-scaling FFAG lattices makes a racetrack shape. A lattice with a very large radius of curvature and smaller number of cells is designed for the placement of the RF cavities. It is matched with respect to dispersion and other betatron functions at the central momentum to the two arcs with the non-scaling FFAG without drifts. The lattice designs are presented in details.

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