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Periodicity five lattice proposal for a cpedm prototype ring

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The community studying facilities to measure a possible Electric Dipole Moment of a charged particle (cpEDM) in a storage ring agreed that a Prototype Storage-Ring (PSR) is required as intermediate step to address critical questions, gain experience and rule out showstoppers. In what follows, a new lattice proposal of the PSR with a periodicity five is described and spin tracking simulations are shown. The main feature of this new lattice proposal is to use weak focusing quadrupolar components to achieve vertical stability while the horizontal optics properties are dominated by the focusing from the bending elements with a little impact from the quadrupoles.

Funding Agency

Footnotes

I have read and accept the Privacy Policy Statement

Yes

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