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Design study of CEPC Alternating Magnetic Field Booster

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CEPC is next generation circular collider proposed by China. The design of the full energy booster ring of the CEPC is especially challenging. The ejected beam energy is 120GeV but the injected beam only 6GeV. In a conventional approach, the low magnetic field of the main dipole magnets creates problems. We propose to operate the booster ring as a large wiggler at low beam energies and as a normal ring at high energies to avoid the problem of very low dipole magnet fields.

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