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Analytical Estimation of Dynamic Aperture for Higgs Factory

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Based on the standard mapping, analytical formula for estimating the dynamic apertures of synchrotron particles has been established for both on-momentum and off-momentum particles. In this paper, we extended the formula of dynamic aperture considering features of a Higgs Factory. As an example, application on the dynamic aperture optimization for the CEPC (Circular Electron and Positron Collider) collider ring will be presented.

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