

# Mitigation of the Energy Sawtooth Effects in the Partial Double Ring Scheme of a Circular Higgs Factory

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The energy sawtooth will be significant in the future circular Higgs factory with beam energy as high as 120 GeV. For the partial double ring scheme, unlike the double ring scheme, the effects of energy sawtooth can't be corrected by tapering the magnet strength with beam energy along beamline. In this paper, the energy sawtooth effects in the partial double ring scheme and its mitigation method will be presented, as well as the reduction of dynamic aperture.

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