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MDI design for CEPC double ring

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With the discovery of the Higgs boson at around 125GeV, a circular Higgs factory design with high luminosity ($L \sim 10^{34} \text{ cm}^{-2} \text{ s}^{-1}$) is becoming more popular in the accelerator world. The CEPC project in China is one of them. Machine Detector Interface (MDI) is the key research area in electron-positron colliders, especially in CEPC, it is one of the criteria to measure the accelerator and detector design performance. Because of the limitation from the existing tunnel, many equipment including magnets, beam diagnostic instruments, masks, vacuum pumps, and components of the detector must coexist in a very small region. In this paper, MDI design will be reported for the Interaction Region (IR) design for CEPC double ring.

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