**Vacuum system and the NEG coating to the narrow chamber**

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In the CEPC CDR, only Higgs mode was considered. As the W, Z, tt mode has been proposed in TDR, the demands of vacuum system also have been considered. Due to the difference of beam energy and current, the PSD of W, Z, tt mode has been changed comparing to Higgs mode, which shows that the photon-stimulated desorption gas load is very high. Similar to positron ring, NEG coating is proposed to vacuum chamber of electron storage ring to absorb extra gas load.

To eliminate the quadrupolar wakes, elliptical vacuum chamber in the collider ring will be replaced by circular chambers with dimeter of 56 mm. The prototypes of vacuum chamber and RF shielding bellows have been fabricated, which meets the engineering requirements.