

BEAM DYNAMICS STUDIES FOR THE FCC-ee COLLIMATION SYSTEM DESIGN

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Abstract

The electron-positron Future Circular Collider (FCC-ee) is being designed for stored beam energies up to 20.7 MeV, a value almost two orders of magnitude higher than any previous lepton collider. Considering the risk of any beam losses causing experimental backgrounds, magnet quenches, or even damage, a halo collimation system is under study to protect the most sensitive equipment from unavoidable losses. Beam dynamics and tracking studies are key aspects to evaluate the cleaning performance of the collimation system, and are essential in an iterative process to converge on an optimum performance. The first results of such studies, exploring various configurations of materials and collimator lengths, are presented, including also estimated beam loss distributions around the ring. In addition, an impact parameter scan on the primary collimators is performed to identify the most critical case for the protection of sensitive equipment.

INTRODUCTION

The Future Circular Collider [1] is a design study for a staged circular collider with a circumference of about 90 km, consisting of a luminosity-frontier, highest-energy electron-positron collider (FCC-ee) [2] followed by an energy-frontier hadron collider (FCC-hh) [3]. The FCC-ee layout considered in the following is the one from the 2019 Conceptual Design Report (CDR) [2], see Fig. 1, which foresees two interaction points (IPs) and four operation modes, with multi-MU lepton beams of energy ranging from 45.6 GeV (Z -operation) to 182.5 GeV (τ -operation). It is noted that an alternative layout with a slightly reduced circumference and four IPs has been recently proposed [4]. The FCC-ee beams have an inherent destructive capacity; therefore, a collimation system is indispensable, not only to reduce experimental backgrounds, as in present and past lepton colliders, but also to protect sensitive machine components from inevitable beam losses. This work presents the first beam dynamics and tracking studies to evaluate and optimize the cleaning performance of a preliminary FCC-ee collimation system design. This forms a basis that later collimation studies build upon, as the ones presented in Ref. [5]. Two collimator design configurations are considered: one taken over directly from the Large Hadron Collider (LHC) [6] and an updated design based on preliminary considerations on material robustness, thermal stability, and impedance [7]. In addition to the different materials and lengths in the two configurations, we investigate also possible improvements to the cleaning through a tilting of the primary collimator jaws. For the

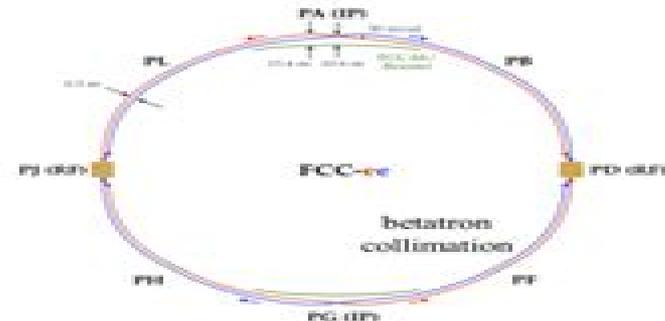


Figure 1: FCC-ee 2IP CDR layout, adapted from [2].

updated configuration, the results of an impact parameter scan on the primary collimators, performed to identify the worst, or critical, impact parameter and provide conservative estimates for the beam loss distribution along the accelerator, are also presented.

COLLIMATOR DESIGN

The FCC-ee collimation layout considered includes a betatron collimation insertion in the straight section PF, see Fig. 1. The two-stage betatron collimation system [8] includes two primary (TCP) and four secondary (TCS) collimators. Off-momentum and synchrotron radiation (SR) collimators are yet to be included. The LHC collimator geometry has been used as the first starting assumption on the collimator design [9], with 60 cm TCP and 100 cm TCS of Carbon-Fiber reinforced-Carbon-composite (CFC) [10]. Possible improvements to this configuration have been studied in Ref. [7], where, from the LHC experience, a first palette of candidate collimator materials consisting of CFC, Molybdenum carbide-Graphite (MoGr) [11], Copper-diamond (CuCD) [12], Glidecop Al-15 (Glidecop) [13], Molybdenum (Mo) [14] and Inermet FI180 (Inermet) [15], has been comparatively assessed. Clearly, additional and more optimized material choices can be considered over the timeline of FCC-ee. An updated configuration consisting of two 33 cm MoGr TCP and four 30 cm Mo TCS has been proposed. This proposal is based on the three figures of merit reported in Ref. [14], namely, the Thermomechanical Robustness Index (TRI, to assess the material robustness against particle beam impacts), the Thermal Stability Index (TSI, to assess the ability of a material to keep geometrical stability under steady-state particle losses) and the Radio Frequency Impedance Index (RIPI, to assess the contribution of a mate-

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