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Synchrotron radiation background studies

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The FCC-ee is a high-luminosity circular electron-positron which will have beam energies ranging from 45.6 (Z mode) to 182.5 GeV (tt mode). In this presentation, the synchrotron radiation sources associated to each operating energy are described. The performances of the synchrotron radiation collimation scheme are detailed including the contribution from particles in the tails of the transverse beam distribution. Finally, an estimation of the synchrotron radiation background due to off-axis injection is also provided.

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