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Beam-gas background characterization in the FCC-ee IR

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Beam-gas induced background has been studied for the MDI region of the FCC-ee at all the operating running energies. Beam loss maps with characterization of the lost particles and full analysis is performed with MDISim. Vacuum requirement in the upstream region before the IR and the IR itself is presented. The loss particles can eventually be tracked in the geant4 detector model and luminosity calorimeter. Benchmarking with MOLFLOW code is discussed as well.

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