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Synchrotron radiation backgrounds in the experimental insertion region of the FCC-hh

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Synchrotron radiation emitted by the 50 TeV protons of the FCC-hh in the last bending and quadrupole magnets upstream the interaction region has been simulated and characterized in terms of emitted power, flux, photons spectrum and fans. The study is focused on the evaluation of the fraction of photons that reaches the experimental region and may hit the detector.

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