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Photon tracing and gas-density profiles in the FCC-hh

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The vacuum chamber of the FCC-hh will have to cope with unprecedented levels of synchrotron radiation power, dealing simultaneously with tighter impedance and magnet aperture requirements. Given that the high radiation power and photon flux will release larger amounts of gas into the system, new solutions for designing the beam-screen geometry and estimating the effective pumping speed and equilibrium gas densities become necessary. This contribution presents an update of the coupled Monte Carlo simulations which have been performed for the synchrotron radiation and related desorption profiles, together with exchange of information with the work package dealing with the electron cloud studies.

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