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Flat beam alternative

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Energy deposition simulations have been run with FLUKA for the estimation of the maximum dose on the HE-LHC final-focus magnets. For this purpose, the FCC-hh magnet model has been used and scaled appropriately according to the HE-LHC requirements. The results of these simulations are discussed, including the requirements on shielding thickness as well as its influence on the optics design. In addition, the flat beam parameter choice is explained here, comparing its luminosity evolution with that of the nominal round optics.

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