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Collimator study for the Diamond-II storage ring

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Horizontal and vertical collimators will be installed in the Diamond-II storage ring to protect the ring components against undesired losses and radiation showers. Different loss mechanisms have been studied, including lifetime effects, RF trips, injection losses and kicker misfire. In this paper, we present the latest collimator layout and collimation efficiency. In addition, the risk of damage to the collimator blades has been studied for different materials using BDSIM.

Footnotes

- [1] H. Ghasem et al., in Proc. IPAC'22, TUPOMS032, (2022)
- [2] BDSIM, https://www.pp.rhul.ac.uk/bdsim

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