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Optics Integration

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Design of the HE-LHC, which will reach approximately twice the centre of mass energy of the LHC, in an already existing tunnel is challenging for optics design.
To efficiently generate lattices with different parameters, strong effort has been put in developing an automatic lattice generation application. By focusing on two different arc options, namely 18 or 23 cells per arc, merits are explored and presented in this talk. The impact of dipole errors on energy reach and aperture is studied together with proposed solutions.

Author: KEINTZEL, Jacqueline (Vienna University of Technology (AT))

Presenter: KEINTZEL, Jacqueline (Vienna University of Technology (AT))

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