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New FCC-hh ring layout: arc and insertion optics

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We present the latest developments in the optics design of the FCC-hh particle collider. The main change with respect to previous designs is the change of the arc cells from 12 to a 16-dipole FODO scheme which makes full use of the available aperture and increases the dipole filling factor. The updated design of insertions is also discussed, adapting the changes in the layout requirements from the placement study and are made compatible with the new arcs and their dispersion suppressors.

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