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Status of the FCC-ee booster and collider magnet developments

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The inter-beam distance in the collider arcs has recently been increased to accommodate the latest design of the SR absorbers in the dipoles. This has led to a modification of the magnet designs, taking advantage of the larger distance between apertures to try minimizing both the aperture coupling in the quadrupoles, and the saturation in the sextupoles.

The presentation will summarize the status of the collider magnet designs, exploring also the possible benefits of reducing the apertures on the power consumption, as well as the status of the booster magnet designs, based on the latest specifications from the beam dynamics studies.

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