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Powering strategy - focus on main dipole magnets

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The talk focuses on the powering of the main dipole magnets for the FCC-ee collider. The choice of the number of circuits is analysed considering the impact given by the different cable lengths (cost and electrical losses). The major design compromises on the powering against the number of turns selection in the dipole magnets are illustrated. Finally, a solution with power converters trims for tapering is analysed. A brief analysis is also carried out for the powering of the main dipoles of the booster, which present the specificity of being cycled.

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