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Evolution of the canted costheta (CCT) design

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We present the CCT design for an FCC-hh or HE-LHC 16-T main dipole magnet and its evolution from initial designs from Lawrence Berkeley National Laboratory to the conceptual design reports. We also discuss main advantages and disadvantages of this design, together with technical challenges and potential solutions as encountered in the model-magnet design and construction at Paul Scherrer Institute.

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