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Update on canted cosine theta final focus magnet design

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The requirements for the Final Focus Quadrupoles of FCC-ee are very stringent in terms of field quality and compactness of the design. We are happy to report that we have a design based on the Canted Cosine Theta concept that fulfills all requirements: Very compact design (distance of magnetic centres of the two quadrupoles at the tip 66mm), excellent field quality (less than 0.1 units in all multipoles) high field gradients (150T/m possible), no dipole component, adequate space to fit needed correctors as extra rings on top of the quadrupoles. The magnetic design and misalignment study have been finished.

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