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Coupling between transverse and longitudinal beam dynamics in the first-stage CLIC decelerator

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In this paper we present the first results of full 6D multi-bunch tracking through the new Drive-Beam decelerator lattice for the first-stage of the Compact Linear Collider (CLIC). Using the new PLACET3 tracking code, we evaluate the coupling between transverse and longitudinal dynamics in the lattice finding an indirect impact of the Drive-Beam's transverse emittance in the Main-Beam performance.

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Footnotes

I have read and accept the Privacy Policy Statement

Yes

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