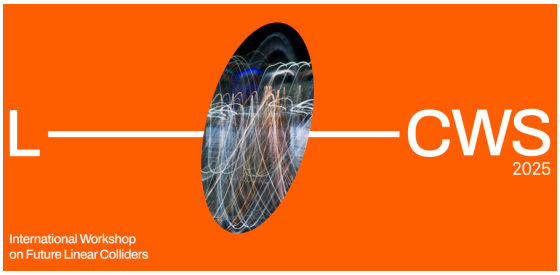

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Status of the CLIC injector complex and Positron Source

Wednesday 22 October 2025 09:10 (20 minutes)

The CLIC injector complex as been revised significantly in the past year. New more optimised accelerating structures have been designed and integrated into the complex. The energy of the electron drive beam for positron production has been reduced to 2.86 GeV and sequence of the different linacs and damping rings has been rearranged for cost optimisation. The overall results is a lower power consumption and lower cost of the injector complex. Due to this changes, it was necessary to study and check the beam dynamics of the different linacs again in particular for positron production. New baseline parameters of the whole complex have been established. The paper will report on this changes as well as on progress in beam loading studies and flux concentrator prototyping.

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