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Overview and layout

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The FCC-ee injector complex has to deliver the beam for top up injection in the two collider rings supporting a beam duration of about one hour on the Z-pole and up to 12 minutes for higher energy modes of operation. In addition, the injector also has to allow a fairly rapid fill-up from zero within half an hour at most. The high beam current of this collider create challenging requirements on the injection chain. After publication of the CDR in 2019, all aspects of the linac needed to be carefully reconsidered and revisited, including the injection time structure. In this talk I will give an overview of the status of the injector complex design and introduce the new layout that has been proposed by the study group working in the context of the CHART collaboration.

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