



Contribution ID: 208

Type: **not specified**

Design of FCC-ee collider ring top-up injection

Wednesday 11 April 2018 14:40 (15 minutes)

FCC-ee collider rings necessitate top-up injection due to the short luminosity lifetime. Previous studies revealed that the conventional and multipole-kicker injection schemes are applicable. The designs of the injection straight section based on these schemes have been elaborated and will be presented. Further investigations, including feasibility of injection devices, filling scheme, failure scenarios, will be discussed.

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Session Classification: FCC-ee accelerator

Track Classification: FCC-ee ACC