Contribution ID: **17** Type: **poster**

AVAILABILITY ANALYSIS OF CEPC LINAC

Tuesday, 12 November 2019 10:30 (1h 30m)

Circular Electron-Positron Collider (CEPC) is a 100 km ring e+ e- collider for a Higgs factory. The injector is composed of Linac and Booster. Luminosity is the core and key parameter of the collider. High integral luminosi-ty is the pursuit of CEPC design, so the top-up injection scheme, long running time and high availability is neces-sary. As the first part of injector, high availability of the Linac is very important and should be considered care-fully in the design. A reliability and availability analysis program RAAS is under developing based on Monte Carlo method and will be introduced. The preliminary availability analysis of the CEPC Linac will be presented and discussed using RAAS.

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Session Classification: Poster Session