Contribution ID: **29** Type: **POSTER**

Several components of alignment system of electron positron injector linac in KEK

Improvement of alignment system of injector linac is a one of major issue in the upgrade plan for SuperKEKB project, in which very low emittance high charge injection beam is required. To suppress the emittance growth during acceleration and transportation, it is naively required to align all the components within 0.1 mm from the ideal position locally (20-30m range) and 0.3 mm globally (500 m). To realize these requirements, position measurement of girders using He-Ne laser and quad-divided photo diode sensors is under progress. Expansion joint of the tunnel is monitored by dial gauge. A new magnet support using screw jack and a mover mechanism which is compatible with existing girder are under test.

Summary

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