

International Workshop on Accelerator Alignment



Contribution ID: 45

Type: **not specified**

The alignment of DTL in CSNS

In CSNS, the DTL(Drift Tube Linac) is part of the Linac accelerator which accelerates H⁻ ion from 3 MeV to 80 MeV, and it is proposed a high alignment tolerance requirement which is both 0.05mm in the transverse and vertical direction and 0.10mm in the longitudinal direction, the challenge work is proceeded optically and mechanically by an established method with a laser tracker system, and the final position accuracy of the DTL is very close to the tolerance requirement after calculating and analyzing the measurement accuracy.

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