

Mechanical stabilized schemes of position sensitive components in the synchrotron facility

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In the synchrotron facility, many components such as magnets, beam position monitor, girder and beamline components need high mechanical stability to provide designed performance. For the long term stability, the common factor is the thermal stress from air temperature, cooling water temperature and beam heating and their interplay. In this paper we will describe some schemes in the design consideration and their test results.