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Girder and support system for the Iranian Light Source Facility

Monday 8 May 2023 16:30 (2 hours)

Iranian light source facility (ILSF) is a 4th generation synchrotron with a nominal horizontal emittance of 270 pm.rad. Storage ring magnet-girder support stability is essential for beam stability. The support system of storage ring girders is essential to achieve the accuracy of adjustment and vibration stability. After studying different girder support systems and considering the stability requirements of the ILSF machine, the wedge and screw support system was selected for vibration analysis. In the vibration analysis, the wedge system was better than the screw one. The wedge system improves the magnet-girder stability, which caused an acceptable increase in the vibration frequency modes in the modal analysis.

Funding Agency

Footnotes

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Yes

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