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Four-rows APPLE-Knot undulator on HEPS

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The High Energy Photon Source (HEPS) is a 4th generation synchrotron radiation source being built in China. An APPLE-Knot undulator with a new configuration is designed for the XCMD beamline of the HEPS. It is the first time to apply four-row APPLE-Knot undulator in storage ring based light sources. The main differences between the novel design and the conventional design of the APPLE-Knot undulators are discussed. Furthermore, the influences of the APPLE-Knot undulator on storage ring optics, as well as the dynamic effects during the process of gap variation at different polarization modes, are investigated and will be introduced in this paper.

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Footnotes

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Yes

Primary author: LI, Xiao Yu (Chinese Academy of Sciences)

Co-authors: JIAO, Yi (Institute of High Energy Physics); TIAN, Saike (Institute of High Energy Physics); YANG, Wei (Chinese Academy of Sciences); LU, Huihua (Chinese Academy of Sciences)

Presenter: JIAO, Yi (Institute of High Energy Physics)

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