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An alternative lattice for the ZIPS storage ring

Since synchrotron radiation sources have many advanced characteristics such as high radiation power, high brightness, broad spectral range, transverse coherence, and excellent time structure, they have become powerful tools for exploring microscopic material structures. With the growing demand for industrial researches, several dedicated industrial light sources are under operation or construction around the world. Zhejiang Industrial Photon Source (ZIPS) is designed to provide a scientific platform for industrial applications within the X-ray region in China. As a preliminary design, the ZIPS storage ring adopts a modified Triple-Bend Achromat lattice with an energy of 2.6 GeV and a low emittance of 3.88 nm ·rad. Details of the lattice design and dynamic performance are presented in this paper.

Footnotes

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