加速器

Three dimensional study of harmonic operation at the Shanghai deep ultraviolet free electron laser

邓海啸1,2,卑华1,2,戴志敏1

- ¹ Shanghai Institute of Applied Physics, Chinese Academy of Sciences, Shanghai 201800, China
- ² Graduate University of Chinese Academy of Sciences, Beijing 100049, China 收稿日期 2009-2-18 修回日期 2009-3-25 网络版发布日期 2009-12-9 接受日期 2009-12-9

摘要

With the right choice of parameters in the free electron laser (FEL) scheme, the undulator can ▶加入引用管理器 be primarily operated at high order harmonic modes and the harmonic radiation is expected to be significantly enhanced. Recently, the possibility of proof-of-principle harmonic operation experiments on the basis of the Shanghai deep ultraviolet (SDUV) FEL test facility has been studied. In this paper, the principle of harmonic operation, three dimensional numerical approaches, and detailed performances of proposed harmonic operation at SDUV FEL are presented.

关键词

harmonic operation, linear harmonic, superradiant

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邓海啸

卑华

戴志敏

通讯作者:

邓海啸 denghaixiao@sinap.ac.cn

作者个人主页:

邓海啸1;2; 卑华1;2; 戴志敏1