中国物理 C 2009 33 (10): 926—929 ISSN: 1674-1137 CN: 11-5641/O4 首页 当期目录 上一期

评述

Studies on RFQ accelerators and its applications

陈佳洱[1],郭之虞[1],傅世年[2],方家驯[1],陆元荣[1],颜学庆[1]

1 State Key Laboratory of Nuclear Physics and Technology, Peking University, Beijing 100871, China
2 Institute of High Energy Physics, CAS, Beijing 100049, China

收稿日期 2008-12-22 修回日期 2009-2-20 网络版发布日期 2009-9-11 接受日期 2009-9-11

摘要

Development activities of Radio Frequency Quadrupole (RFQ) accelerators in China are presented. A 1 MeV O^+ RFQ and a 3.5 MeV ADS proton RFQ have been constructed. A novel separated function RFQ is under beam test, a 2 MeV D^+ RFQ is under construction and a CSNS RFQ is going to be constructed. The RFQ dynamics and the simultaneous dual beam acceleration with positive and negative ions were investigated and related codes were developed. The applications of RFQ will be further promoted in China.

关键词 RFQ, integral split ring RFQ, mini-vane RFQ, separated function RFQ, four-vane RFQ
分类号
DOI:

通讯作者:
郭之虞 zhyguo@pku.edu.cn
作者个人主页:

陈佳洱[1];郭之虞[1];傅世年[2];方家驯[1];陆元荣[1];颜学庆[1]

扩展功能
本文信息
Supporting info
PDF(1433KB)
[HTML全文](0KB)
参考文献[PDF]
参考文献
服务与反馈
把本文推荐给朋友
加入我的书架
加入引用管理器
引用本文
Email Alert
相关信息
本刊中 包含“RFQ, integral split ring RFQ, mini-vane RFQ, separated function RFQ, four-vane RFQ”的 相关文章
本文作者相关文章
· 陈佳洱
· 郭之虞
· 傅世年
· 方家驯
· 陆元荣
· 颜学庆