

加速器

Design and construction progress of BRIF

张天爵, 关遐龄, 崔保群

China Institute of Atomic Energy, Beijing 102413, China

收稿日期 2009-2-6 修回日期 2009-3-29 网络版发布日期 2009-12-9 接受日期 2009-12-9

摘要

A new RIB project, the Beijing Radioactive Ion-beam Facility (BRIF), has been running at CIAE since 2004. In this project, a 100 MeV H-cyclotron, CYCIAE-100, is selected as the driving accelerator providing a 75—100 MeV, 200—500 μA proton beam. An ISOL system employs two stage separators to reach the mass resolution of 20000. Its RIB beam will be injected into the existing Tandem and a superconducting booster installed down stream of the Tandem will increase the energy by 2 MeV/q. The progress of BRIF, giving special emphasis to CYCIAE-100, will be introduced in this paper.

关键词

[cyclotron](#), [main magnet](#), [RF cavity](#), [ISOL](#), [QWR](#), [superconducting cavity](#)

分类号

DOI:

通讯作者:

张天爵 tjzhang@ciae.ac.cn

作者个人主页:

张天爵; 关遐龄; 崔保群

扩展功能

本文信息

▶ [Supporting info](#)

▶ [PDF](#) (5634KB)

▶ [\[HTML全文\]](#) (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 “](#)

[cyclotron](#), [main magnet](#), [RF cavity](#), [ISOL](#), [QWR](#), [superconducting cavity](#)

”的 [相关文章](#)

▶ 本文作者相关文章

· [张天爵](#)

· [关遐龄](#)

· [崔保群](#)