

MonPE14

The Beam Injection Line Test of CYCIAE-100 Cyclotron

Xianlu Jia, Hongjuan Yao, Tao Ge, Tianjue Zhang, Xia Zheng, Yinlong Lv, Bin Ji, Xiaoliang Fu, Zhiguo Yin

China Institute of Atomic Energy, Beijing, China

Corresponding Author: Xianlu Jia, e-mail address: xljia@126.com

A 100MeV high intensity proton cyclotron, CYCIAE-100, has been built at China Institute of Atomic Energy (CIAE) as a driving accelerator for the Beijing Radioactive Ion-Beam Facility (BRIF). And the proton beam of 25uA/100MeV was gotten at the primary test in 2014. This paper will depicts the injection beam line, including the H- multi-cusp ion source, solenoid, steering, quadrupole-truplet lens, buncher, central region. And the efficiency with different beam density will also be given in the paper.