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The Development Technology of UCx Targets at BRISOL

On-line Isotope separator of Beijing radioactive ion-beam facility(BRISOL) produces medium and short-lived radio-isotope beams by irradiating a target with a 200- μ A 100-MeV proton beam provided by a cyclotron. Recently, UCx targets have been developed at BRISOL. At first, lanthanum carbide has been chosen as an analogy for uranium carbide, so that air sensitive target material processing can be developed without the risk of radioactive contamination. Cold-pressed method was developed at BRISOL by the preparation of lanthanum targets and then the UCx targets was fabricated. The development of UCx targets will be presented in this paper.

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Email Address

maxie1412@163.com

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Presenter if not the submitter of this abstract

Primary authors: CUI, Baoqun (CIAE); TANG, Bing; CHEN, Lihua (中国原子能科学研究院); Mr MA, Ruigang (China Institute of Atomic Energy); MA, Xie (China Institute of Atomic Energy); Mr MA, Yingjun (China Institute of Atomic Energy)

Presenter: MA, Xie (China Institute of Atomic Energy)

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