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The development of a FEBIAD ion source for BRISOL

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The Beijing Radioactive ion beam facility Isotope Separator On-Line (BRISOL), is a radioactive ion beam facility based on a 100MeV cyclotron providing a 100 μ A proton beam bombarding the thick target to produce radioactive nuclei, which produces singly charged ions using an ion source. A new FEBIAD ion source has been developed to fulfil the requirements of the BRISOL for producing radioactive ion beam. A series of structural optimization have been adopted to make the maintenance of the ion source model easier. The results from this ion source will be presented in this paper.

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