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Progress of the Laser Ion Source Upgrade for RHIC and NSRL Program at BNL

The LION2 is being constructed to replace the existing LION, which is a laser ablation ion source to provide various species of heavy ions for Relativistic Heavy Ion Collider (RHIC) and NASA Space Radiation Laboratory (NSRL) at BNL. LION and LION2 provide singly charged heavy ions, which are transported and then trapped by an electron beam ion source, so called Extended-EBIS, for further ionization. LION2 is designed for better beam performance and reliability. This paper will present the design and construction status of the LION2.

Funding Agency

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Yes

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