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Challenges in production of intense metallic ion beams at IMP

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Since the development of inductive heating oven in 2019 [1], several intense highly charged metallic ion beams have been produced for different requirements at IMP (Institute of Modern Physics). According to the material characteristics, we used different forms of metal materials, including metal elements (Cr, Mn, Ni, Fe), oxides (UO_2), fluoride or iodide (ZrF_4 , SrF_2 , CsI), etc. Detail experiments setup and testing results will be presented in this contribution.

Footnotes

Funding Agency

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Yes

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