

Investigations of characteristics of 2.45 GHz ECR ion source

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A 2.45 GHz compact ECR ion source based on coaxial quarter wave resonator has been developed in JINR FLNR for production of singly charged ions and secondary radioactive ion beams. This paper describes the results of investigation of the source characteristics with different types of UHF couplers. In experiments extracted current was measured as a function of UHF power, frequency and gas flow. An optimal configuration of UHF coupler was determined.

Primary author: BERESTOV, Kirill (JINR)

Co-authors: BOGOMOLOV, Sergey (JINR); KUZMENKOV, Konstantin (JINR)

Presenter: BERESTOV, Kirill (JINR)

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