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Compact 2.45 GHz ECR Ion Source for generation singly-charged ions

One of the projects that is FLNR (JINR) currently working on is the new ECR ion source for its mass-separator MASHA. It has to be small, work on 2.45 GHz frequency and provide 1+ ions with high efficiency. One of the way to do that is creation of a permanent magnet 2.45 GHz ion source based on coaxial resonator.

This paper describes the development of a compact ECR ion source based on 2.45 GHz coaxial resonator.

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