THE DESIGN OF 28 GHZ ECR ION SOURCE FOR THE COMPACT LINEAR ACCELERATOR IN KOREA

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Abstract

The construction of a compact linear accelerator is in progress by Korea Basic Science Institute. The main capability of this facility is the production of multiply ionized metal clusters and the generation more intense beams of highly charged ions for material, medical and nuclear physical research. To produce the intense beam of highly charged ions, we will construct an Electron Cyclotron Resonance Ion Source (ECRIS) using 28 GHz micrewaves. For this ECRIS, The design of a superconducting magnet, microwave inlet, beam extraction and plasma chamber was completed. Also we are constructing a superconducing magnet system. In this presentation, we will report the current status of development of our 28GHz ECRIS.

Paper not received

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