

Beam particle sources research in the Universidad Autónoma de Sinaloa

Abstract

In this work we present the new joint project of the Universidad Autónoma de Sinaloa and CERN's beam department for the design and creation of an ion source capable of deliver up to 100 mA of protons and 30 mA of H⁻, also the electromagnetic design and construction of resonant cavities for electron linear accelerators within the University of Sinaloa with the aim to produce high perveance beams with energies ranging from 50 keV to 1 meV, with emphasis for research, environmental and industrial applications.

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