



Contribution ID: 382

Type: Oral

Automatic frequency control device for a two-gap quarter-wave kaaxial buncher

The results of the development of an automatic frequency control (AFC) device for a two-gap buncher are presented in this paper.

This buncher is used in the middle energy beam channel (MEBT) between the RFQ and the accelerator of the Alvarez LU-20.

This device allows you to automatically adjust the resonant frequency of this buncher to the frequency of LU-20.

The results of the modeling for this device are presented in this paper.

The results of the experimental verification for this buncher are presented in this paper.

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Track Classification: Particle Accelerators and Nuclear Reactors