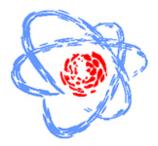
The XXI International Scientific Conference of Young Scientists and Specialists (AYSS-2017)



Contribution ID: 382

Type: Oral

Automatic frequency control device for a two-gap quarter-wave kaoxial 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.

Primary author: Mr TRUSHIN, Maksim (Sergeevich)

Co-authors: Mr SITNICOV, Alexey (NRC "Kurchatov Institute"FSBI "SSC RF ITEP", Moscow, Russia); Mr SELEZNEV, Dmitry (NRC "Kurchatov Institute"FSBI "SSC RF ITEP", Moscow, Russia); Mr LEVTEROV, Konstantin (JINR); Mr KULEVOY, Timur (NRC "Kurchatov Institute"FSBI "SSC RF ITEP", Moscow, Russia)

Presenter: Mr TRUSHIN, Maksim (Sergeevich)

Track Classification: Particle Accelerators and Nuclear Reactors