



Contribution ID: 925 Contribution code: WEPL122

Type: **Poster Presentation**

Helical undulator combined with a multilayer cylindrical waveguide.

Wednesday, 10 May 2023 16:30 (2 hours)

A solution is presented for the radiation field of a particle moving along a helical trajectory in a cylindrical waveguide with multilayer walls. The number of layers and their filling is arbitrary. The solution was obtained by the partial domain method and is a generalization of the solution for a resistive waveguide obtained earlier.

Funding Agency

The work was supported by the Science Committee of RA, in the frames of the research project № 21T-1C239

Footnotes

I have read and accept the Privacy Policy Statement

Yes

Primary author: IVANYAN, Michael (CANDLE Synchrotron Research Institute)

Co-authors: GRIGORYAN, Armen (Yerevan State University); GRIGORYAN, Bagrat (CANDLE Synchrotron Research Institute); SARGSYAN, Bagrat (CANDLE Synchrotron Research Institute); LEMERY, Francois (University of Hamburg); FLOETTMANN, Klaus (Deutsches Elektronen-Synchrotron); KHACHATRYAN, Vitali (CANDLE Synchrotron Research Institute)

Presenters: GRIGORYAN, Armen (Yerevan State University); IVANYAN, Michael (CANDLE Synchrotron Research Institute)

Session Classification: Wednesday Poster Session

Track Classification: MC5: Beam Dynamics and EM Fields: MC5.D03: Calculations of EM fields Theory and Code Developments