KEK WNSC seminar

Speaker: **Prof. Alexander Kalimov**
(St. Petersburg State Polytechnic University)

Title: Geometry and potential optimization in the electrostatic TOF systems

∗ The seminar will be given in *English.*

Date: From 16:00 on November 28th, 2017

Place: RIBF bldg. R203

Abstract

Optimizing parameters of the electrostatic TOF systems may be based on different principles. One of them implies direct ion tracing in the electric field and analysis of the ion beam properties in the focusing area. This approach requires precise solution of several non-trivial problems. The first of them is fast and accurate calculation of the electric field characteristics. The second one is the ion tracing in the computed field, and the third one is optimizing potentials of the electrodes and their geometrical parameters. The finite element method applied for the field simulation and charged particles tracing has principle advantages and drawbacks compared to alternative numerical technologies. The corresponding details will be discussed in the presentation. The main results are illustrated by solving test problems and by analyzing properties of optimized sector TOF systems.

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