The optimization of efficiency of the internal conversion electrons spectrometer (ULESE) by the CST software

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Abstract: The internal conversion electrons spectrometer ULESE is a magnetic type spectrometer in which the conversion electrons are transported to the detector by using magnetic field from permanent magnets. For optimization the ULESE spectrometer CST PARTICLE STUDIO software was used. This code is a specialist tool for the fast and accurate analysis of charged particle dynamics in 3D electromagnetic fields. The main goal for optimizing is to improve its efficiency. The results of simulation will be presented.