A software tool for analysis of beam transport data

By Regodic, Milovan

Condition: New. Publisher/Verlag: AV Akademikerverlag | Supporting software modules for SRIM with respect to ion-optics formalism | The aim of this work and its "precursor" - the master thesis project - was to design and develop software that will be capable of dealing with some of the real beam transport problems of ion beam therapy facilities (e.g. merging ion optics with beam transport in matter). The transport of ion beams through matter is usually modeled by the software like SRIM, FLUKA, GEANT4, SHIELD, etc. and partly also by the beam-transport codes like WinAGILE, TRANSPORT, MAD-X, etc. The Stopping and Range of Ions in Matter (SRIM) is very powerful and reliable software that simulates interactions of ions with matter using the Monte Carlo simulation method. However, there are some limitations of the SRIM software with respect to real beam parameters and conventional ion-optics formalism. The ion-optics formalism is important for transport of charged particles in ion-optical elements of accelerators. The software described in this work was developed in order to overcome the limitations of SRIM software with respect to ion-optics formalism. Moreover, the software architecture that has a relatively high level of abstraction was established and will simplify the future code...

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