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KATRIN's open-source particle tracking package Kassiopeia

Kassiopeia is an object-oriented software package written in C++ to simulate particle tracks in complex geometries under the influence of static electromagnetic fields. Featuring a comprehensive set of functionalities, it has originally been developed to satisfy the requirements of the KATRIN neutrino mass experiment.

An open-source version of Kassiopeia was published on github in 2013, enabling its usage for other experiments. Since then, a number of external users have applied the package for their simulations and many major updates, which improved and extended the software have been pushed to the repository.

This contribution presents the latest developments for the public software release, which are mainly aiming at simplifications concerning not only the development process but also the user experience.

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Collaboration / Activity

KATRIN

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