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STEPtoRoot - from CAD to monte carlo simulation

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Modern experiments in hadron and particle physics are searching for more and more rare decays which have to be extracted out of a huge background of particles. To achieve this goal a very high precision of the experiments is required which has to be reached also from the simulation software. Therefore a very detailed description of the hardware of the experiment is needed including also tiny details.
To help the programmer of the simulation software to achieve the required level of detail a semi-automatic tool was developed which is able to convert geometry descriptions coming from CAD programs into root geometries which can be used directly in any root based simulation software.
The features of the conversion program will be presented and results from its use for the PANDA experiment will be shown.

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