Newton's Axiom plot application

Graphical representation of measurement Data BY PYTHON BASED APPLIcation

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# Abstract

The graphical representation of measurement data generated by scientific experiments usually has strong influence on its reception, interpretation and analysis. The detection of correlation and causality between multiple results is often highly simplified when illustrated by a graphical plot. Pure numeric data is not as useful as a drawn graph to find and understand coherences in results. This project aims to build an easy-to-use and versatile application that can be used by research groups in order to generate 2-dimensional plots of measured data. It is capable of comparing different measurement series, distinguishing them by different colors. Moreover it is able to draw different representations of data such as dot diagrams, linear regressions, line graphs and approximated functions. Pre-existing data can be imported from CSV-files. Conclusively it provides a fast and straightforward alternative to comparable, more complex plotting applications.