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Gnuplot Workshop

Tuesday, July 22, 2014 9:00 AM (1 hour)

The KSETA Doctoral Workshop allows interested KSETA fellows to learn more about methods and tools that might support their research. Doctoral students of all KSETA research fields, from theoretical or experimental particle and astroparticle physics to software or cryogenic engineering, are invited to spend three interesting and inspiring days together and to benefit from the other participants' experience.

One key aspect of the workshop are the tutorials given by all participating doctoral students. In groups, the participants prepare their tutorial "from doctoral fellows for doctoral fellows" on a topic that could be useful to others concentrating on other fields of research. This tutorial may cover introductions to useful tools, basic technologies for non-engineers, basics in physics for non-physicists, or applicable methods for research. Every tutorial lasts one hour and the presenter is free to use any didactic method like PowerPoint, whiteboard, or interactive methods such as exercises on programs installed on the students' laptops.

The workshop program is complemented by invited talks and discussions.

The workshop "Gnuplot" will give a short introduction into the plotting program Gnuplot. The workshop deals with three topics. First we will show how to plot, manipulate and adjust functions and graphs in general, by using Gnuplot. Secondly we will present output terminals in general and show how to produce and include made to measure plots into Latex files in a comfortable way. Furthermore we deal with more complicated problems using control structures in Gnuplot.

Every part consists of a short presentation with illustrated examples on the one hand. On the other hand there will be time for exercises complementing the presentation.

One important objective, we want to meet in this tutorial, is to introduce Gnuplot as a plotting program for every day use. Our other main objective is to show the applicability of Gnuplot for producing neat diagrams for presentations and publications.

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Session Classification: Tutorials