Gnuplot hints

For those of you who would not use any analysis software like Origin, Matlab, ROOT or others, here come some gnuplot commands. These you might need if you want to plot several distributions in one plot, use logscale etc.

Linux & Mac users: Start gnuplot in the directory where the data files are stored.

Windows users: If gnuplot was installed together with VITESS, find the first VITESS version with gnuplot (2.11 or newer). Go to the folder binary and start wgnuplot. Use the button ChDir to change into the directory where data files are stored.

Useful commands:

- plot "filename" → plots a 1D distribution with last used style settings
- plot "filename" with points/lines/linespoints → plots a 1D distribution with chosen style
- plot "filename" with linespoints, "filename2" with points → plots two 1D distributions with chosen style in one window
- set logscale x/y/z → sets a logscale
- unset logscale x/y/z → unsets a logscale
- set pm3d map → required to plot a 2D distribution with colour code
- splot "filename" → plots a 2D distribution. Attention: It must be stored in VITESS "xyz" style (column style)
- unset pm3d map → required to plot 1D distributions again
- set xrange [min:max] /set yrange [min:max] → plot within a certain range
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