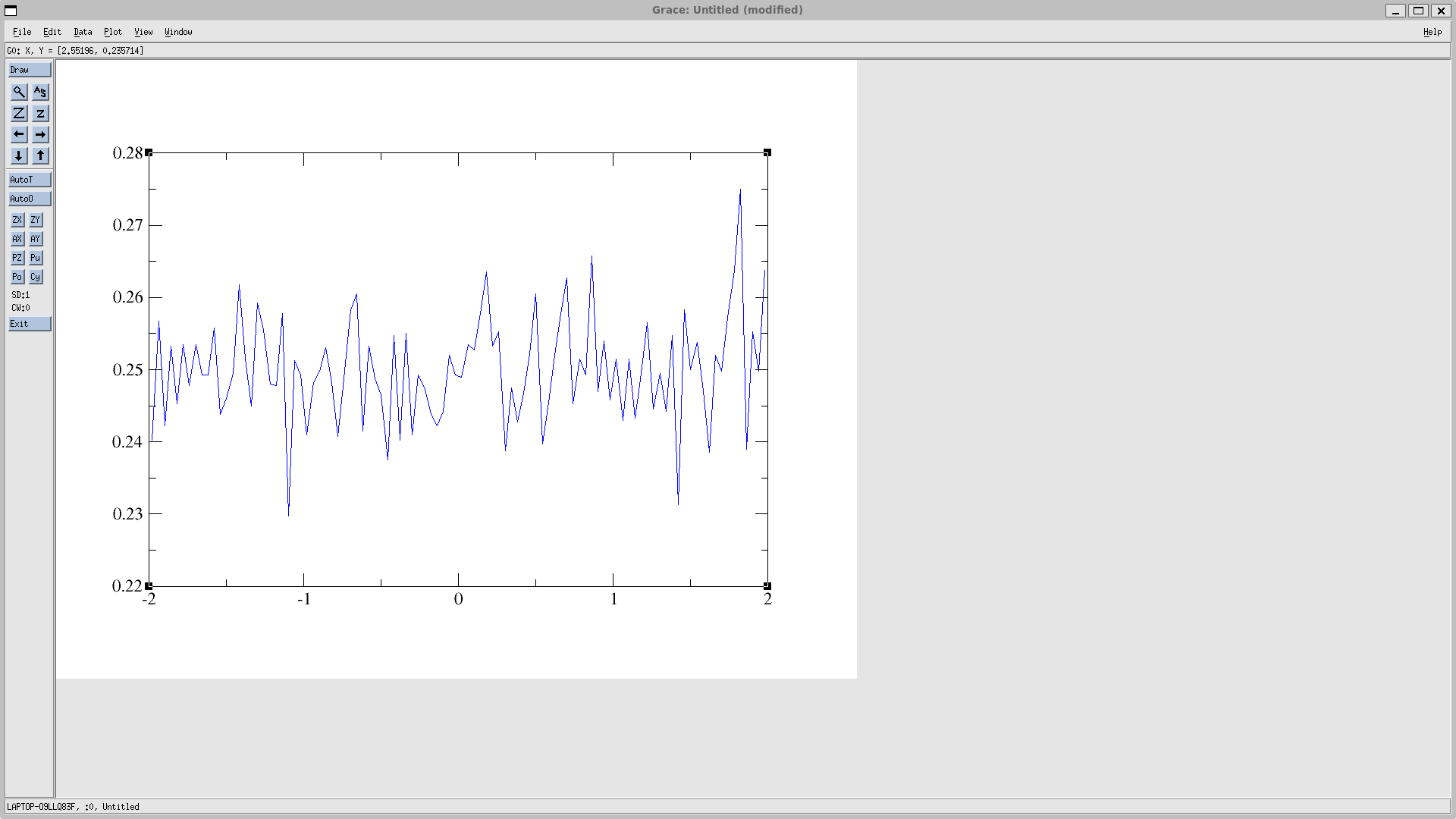
REPORT

RACHAMALLA HINDUSREE-2103128

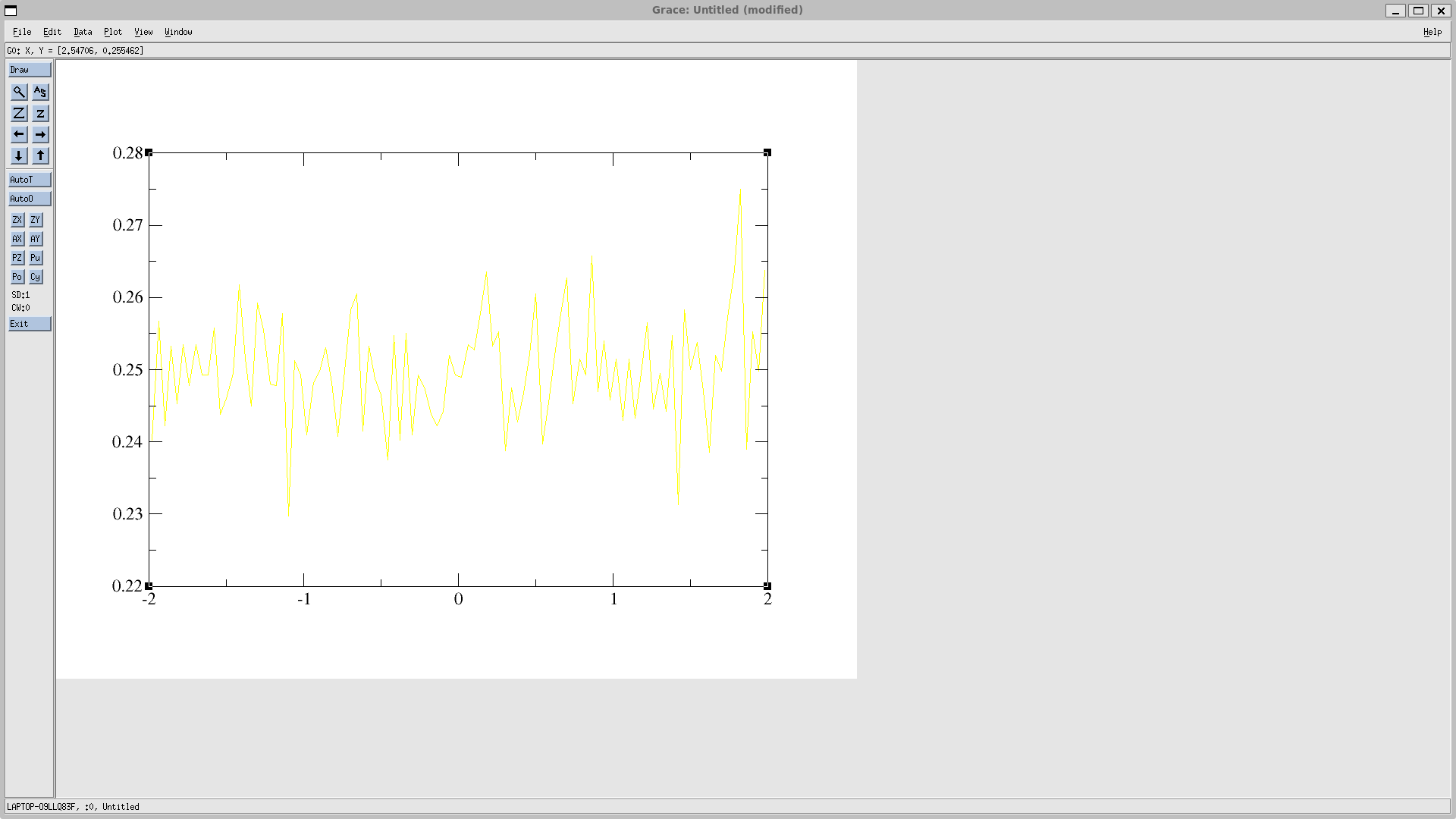
A1. The probability distribution of the random numbers as a function of

the value of the random number.

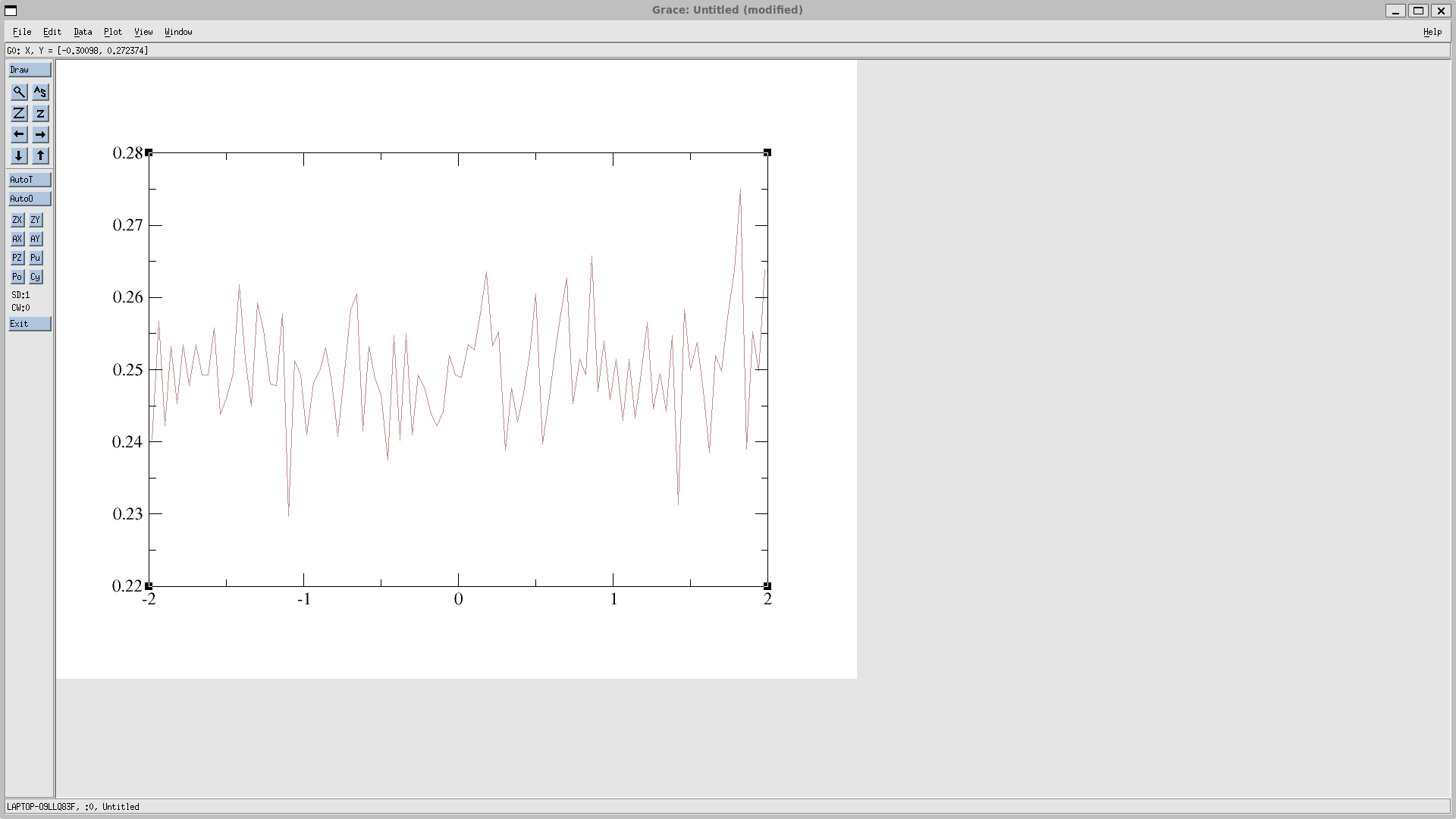
X – direction



Y - direction

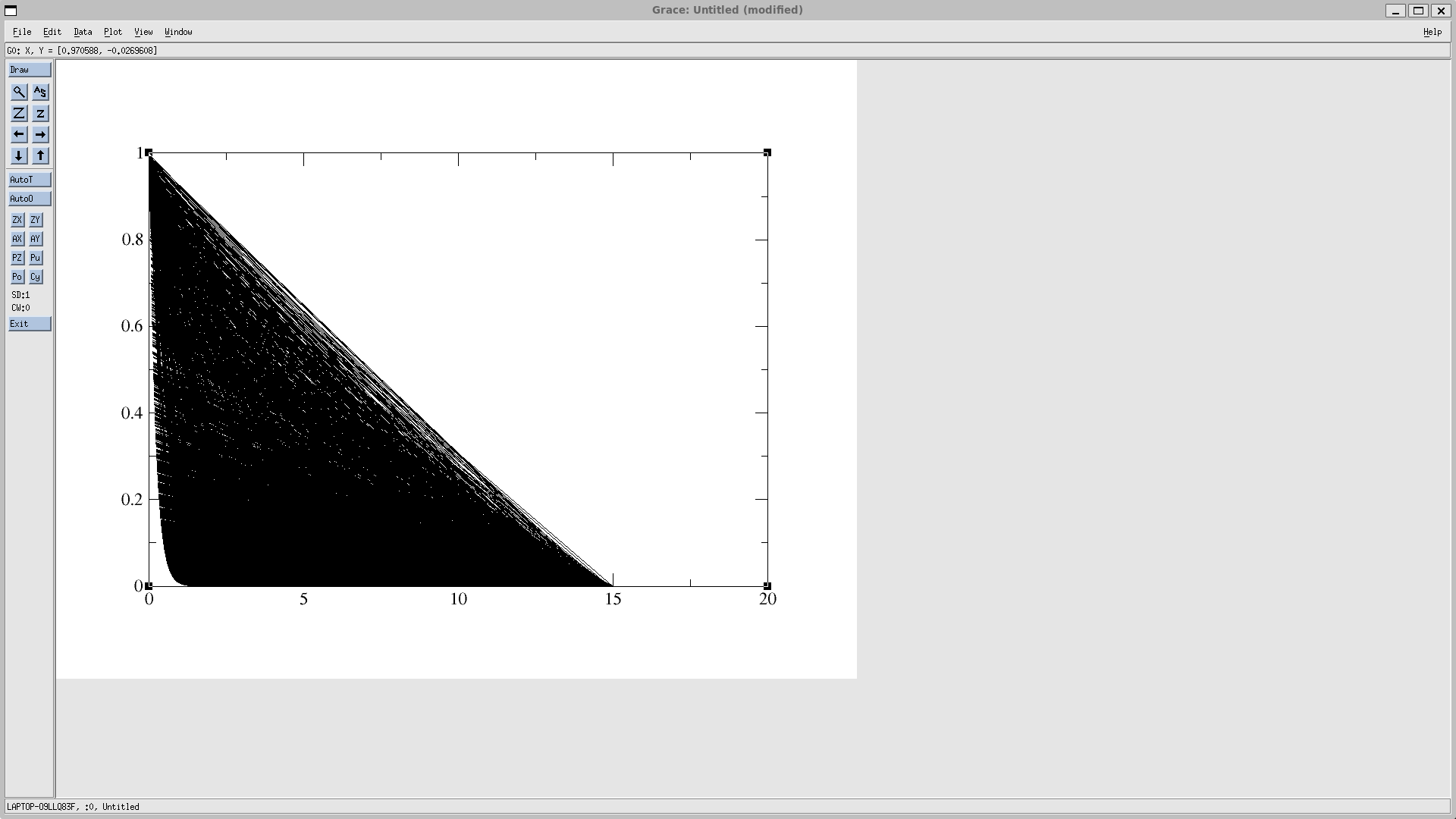


Z-direction

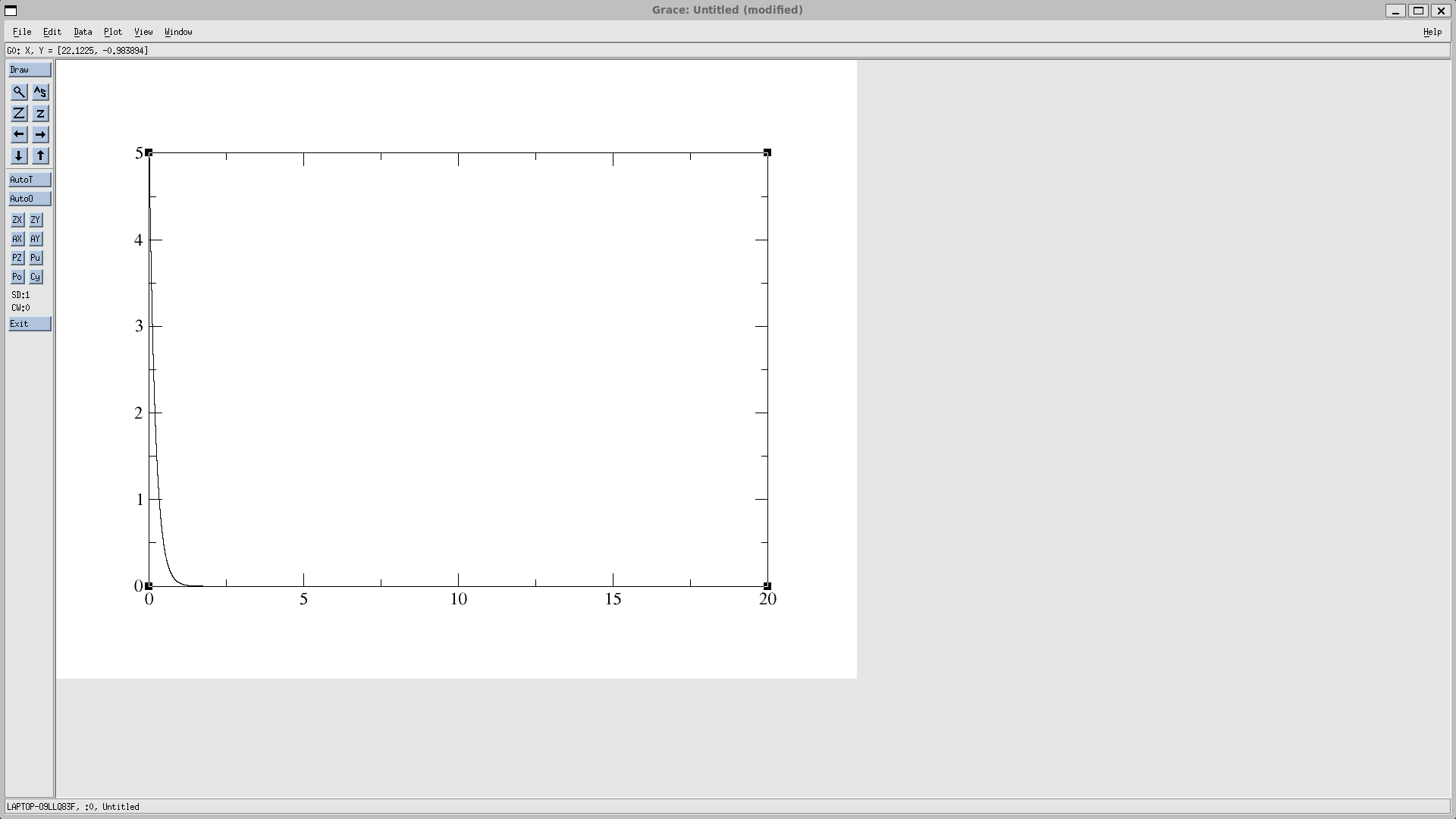


B.

Numerical probability distribution

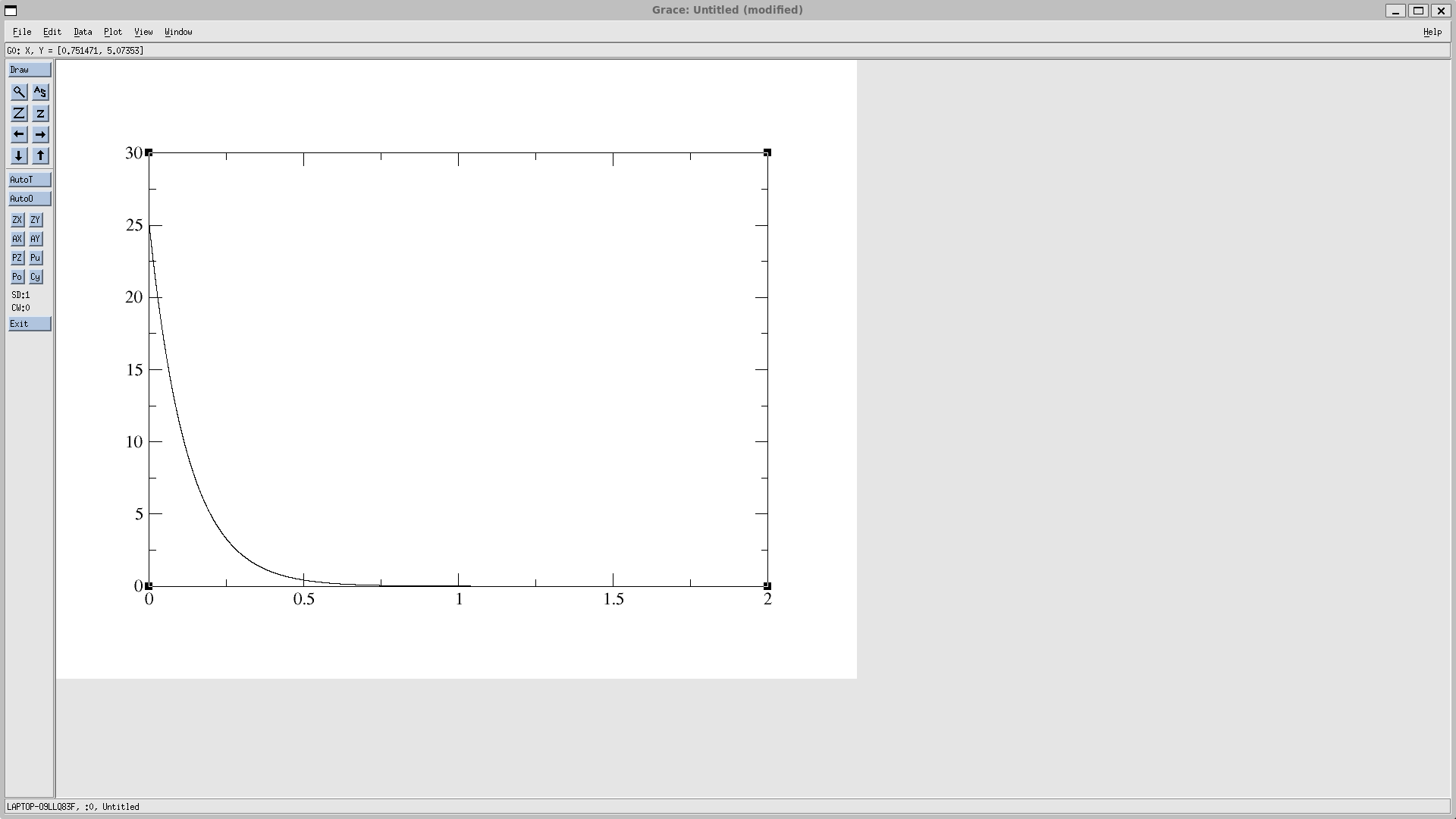


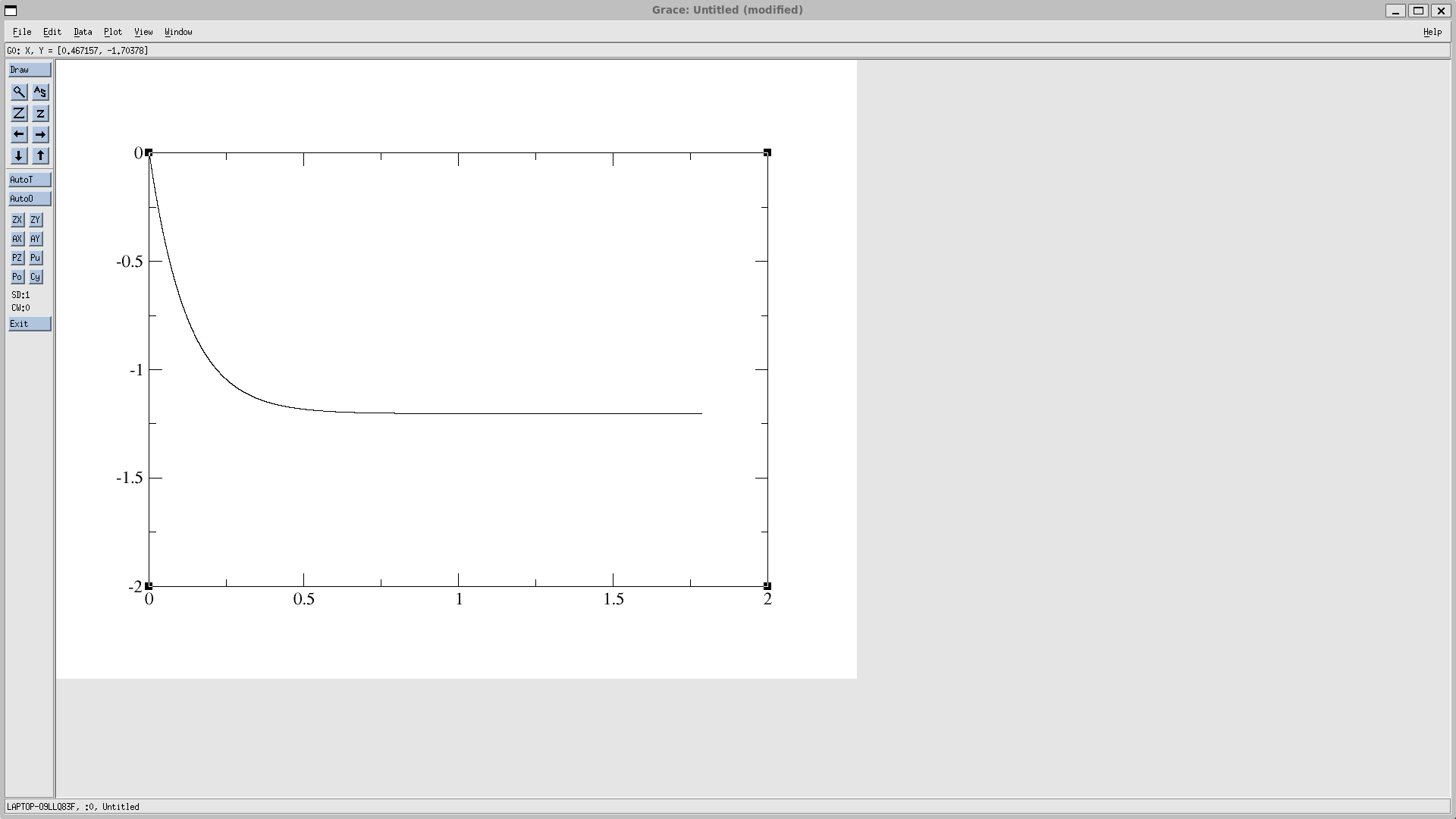
Analytical probability distribution



Both numerical and analytical plots are identical

A2.

Vx vs time plot Vz vs time plot



X vs time z vs time

