

Statistical Methods of Data Analysis

Ulrich Husemann

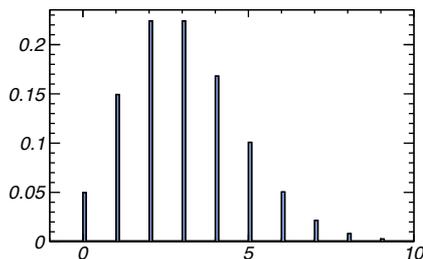
Humboldt-Universität zu Berlin
Winter Semester 2010/2011

PDFs and CDFs

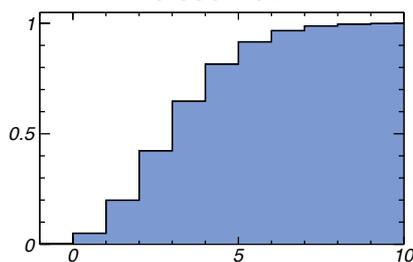


Discrete Distribution

Poisson PDF

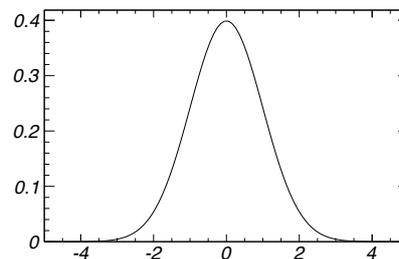


Poisson CDF

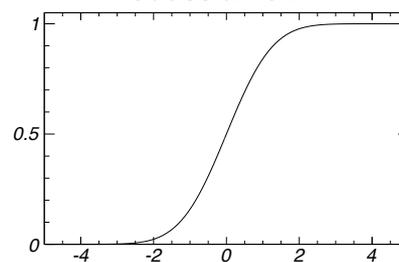


Continuous Distribution

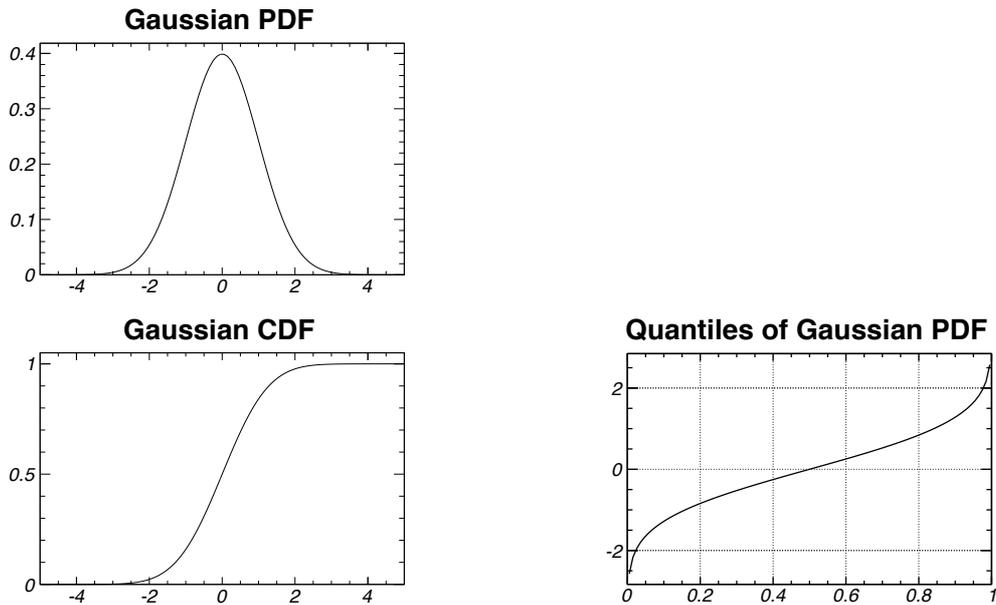
Gaussian PDF



Gaussian CDF



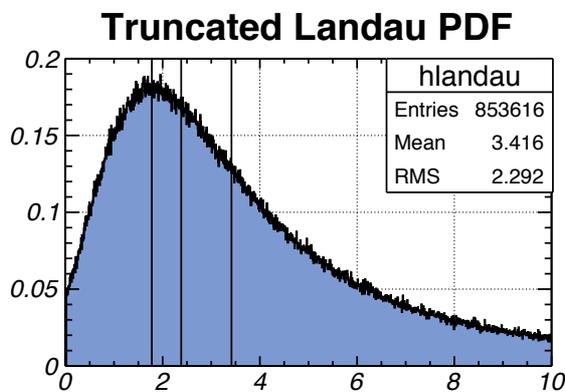
Quantiles



Median, Mode, Mean



- Example: Landau distribution (e.g. energy loss of particles in matter) truncated at $x = 10$



Mode: 1.78
Median: 2.38
Mean: 3.42

Two-Dimensional PDFs

