

Practical statistics

A lecture for graduate students

Andrzej Sołtan

Nicolaus Copernicus Astronomical Center

Astronomers always have tackled with the application of statistical techniques to analyze their observational material and solve astrophysical questions.

The aim of the present lecture is to provide some help on data analysis or astrostatistics. Some acquaintance with the elementary statistical methods commonly used in the physical sciences is assumed.

I am going to talk about: probability distribution functions, statistical inference including Bayesian approach, estimators, point estimation and non-parametric statistics, regression, testing hypotheses, methods for data with upper limits, statistic on a circle or sphere.

The first lecture starts on **Tuesday, March 1st at 9.00 am** in the small lecture room at the Nicolaus Copernicus Astronomical Center, Bartycka 18, Warsaw.