International Max Planck Research School (IMPRS) for Astronomy & Cosmic Physics at the University of Heidelberg



Heidelberg Summer School 2009

Statistical Inferences from Astrophysical Data August 10–14, 2009



IMPRS Heidelberg* invites graduate students and postdocs to its 4th Heidelberg Summer School. This year's school is centered on how to draw scientific inferences from astrophysical data sets. We will also discuss proper statistical methods that are crucial for testing specific astrophysical models.

The school will present essential statistical concepts and techniques. These concepts will be illustrated through various astrophysical examples. Approaches such as Monte Carlo, maximum likelihood techniques, Bayesian statistics, parametric tests, biases in censored/incomplete data, or time-series analysis will be applied in computer exercises.



*) IMPRS-HD is an independent part of the Heidelberg Graduate School for Fundamental Physics, HGSFP



David W. Hogg (New York University) Ian McHardy (University of Southampton) William H. Press (University of Texas, Austin)

Information & registration: www.mpia.de/imprs-hd Email: imprs-hd@mpia.de



Credits: D.Lang ; X.Fan, M.Blanton, B.Dilday (SDSS); K.Bernloehr (H.E.S.S.), Juin et al.