

Homework #1 — PHYS 603 — Spring 2008
Deadline: **Tuesday, February 12, 2008, in class**

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Textbook: Silvio Salinas, *Introduction to Statistical Physics*
Springer, 2001, ISBN 0-387-95119-9

Do not forget to write your name and the homework number!

Each problem is worth 10 points.

Ch. 1 Introduction to Statistical Methods

1. Problem 1.4, Poisson distribution.

There is a typo in this problem. The correct formula is $\lambda = Np$ with the uppercase N , not the lowercase n .

2. Problem 1.5, Conditional probabilities.

3. Problem 1.6, Two variables distributed exponentially.

4. Problem 1.7, Random walk in 1D with Gaussian increments.

February 9, 2008