PHYS 391, Homework #4

Key Concepts

- Correlation and Covariance

- Binomial Distribution

- Poisson Distribution

Reading: Taylor Chapters 9-11

Homework Problems (taken from Taylor):

1. Problem 9.14

2. Problem 9.15

3. Problem 10.11

4. Problem 10.15

5. Problem 10.18

6. Problem 11.3

7. Problem 11.10

8. Problem 11.20 - Answer the question "significant evidence" quantitatively both in terms of a number of standard deviations, as well as the probability that this was simply a statistical fluctuation in the background rate.