

How to analyze charge spectra from photo-sensors (Block 5)

Tuesday, 14 July 2020 12:00 (1h 15m)

Abstract: In this lecture, we will take a detailed look at the functioning and analysis of a common detector used in particle and nuclear physics. We will go through a detailed calculation of what we expect from a sensitive photo-multiplier tube used to detect photons.

Through this calculation, you will learn the use of many tools that you already know from courses in calculus, probability and statistics, Fourier analysis, etc. In the end we will compare our results to actual measurements and discuss what we have learned and how to apply it in your laboratories.

Recording is available at https://bluejeans.com/s/_a5OcxoHEk8/

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