Counting statistics, uncertainty and dimensional models

GRE Subject Test · GRE Physics · Vocabulary in context

Word	Example
Poisson distribution /ˈpɔɪsn ˌdɪstrɪˈbjuːʃn/	Counts of rare decays follow a **Poisson distribution**.
standard deviation /ˈstændəd ˌdiːvɪˈeɪʃn/	For a Poisson count N, the **standard deviation** is $\sqrt{N}$. N $\sqrt{N}$
standard error /ˈstændəd ˈerə/	The **standard error** of a mean falls as more data are taken.
dimensional analysis /daɪˈmenʃənl əˈnæləsɪs/	**Dimensional analysis** checks that both sides of an equation have the same units.
binomial distribution /baɪˈnəʊmɪəl ˌdɪstrɪˈbjuːʃn/	Coin tosses follow a **binomial distribution**.
variance /ˈveərɪəns/	The **variance** is the square of the standard deviation.

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