

Summary of Tableau 11, Part 3

The fabulous limit laws

The bell curve flits in, why polls *really* work

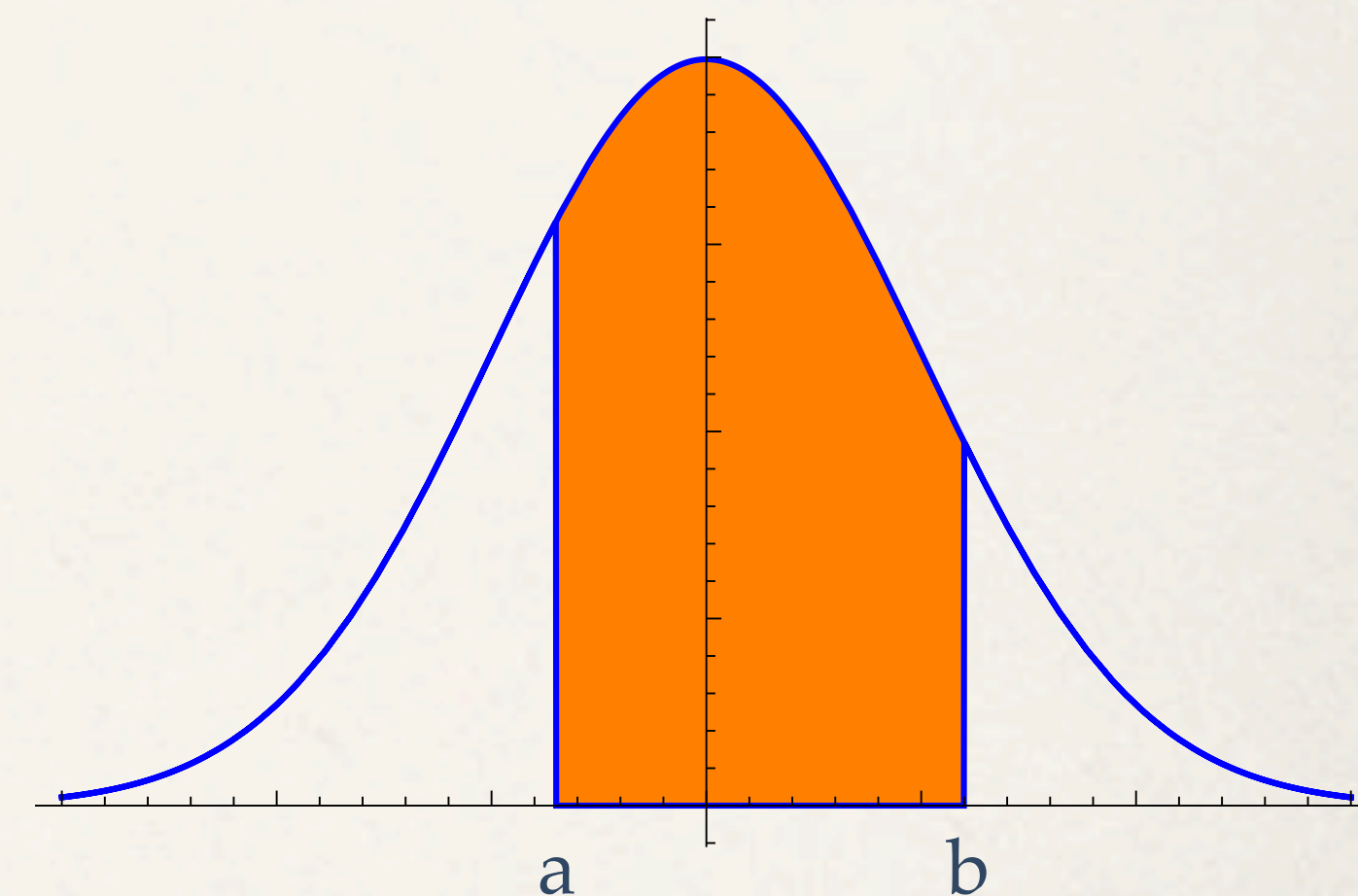
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The central limit theorem

$$\mathbf{P}\{a < S_n^* \leq b\} \rightarrow \int_a^b \phi(x) dx \quad (n \rightarrow \infty)$$



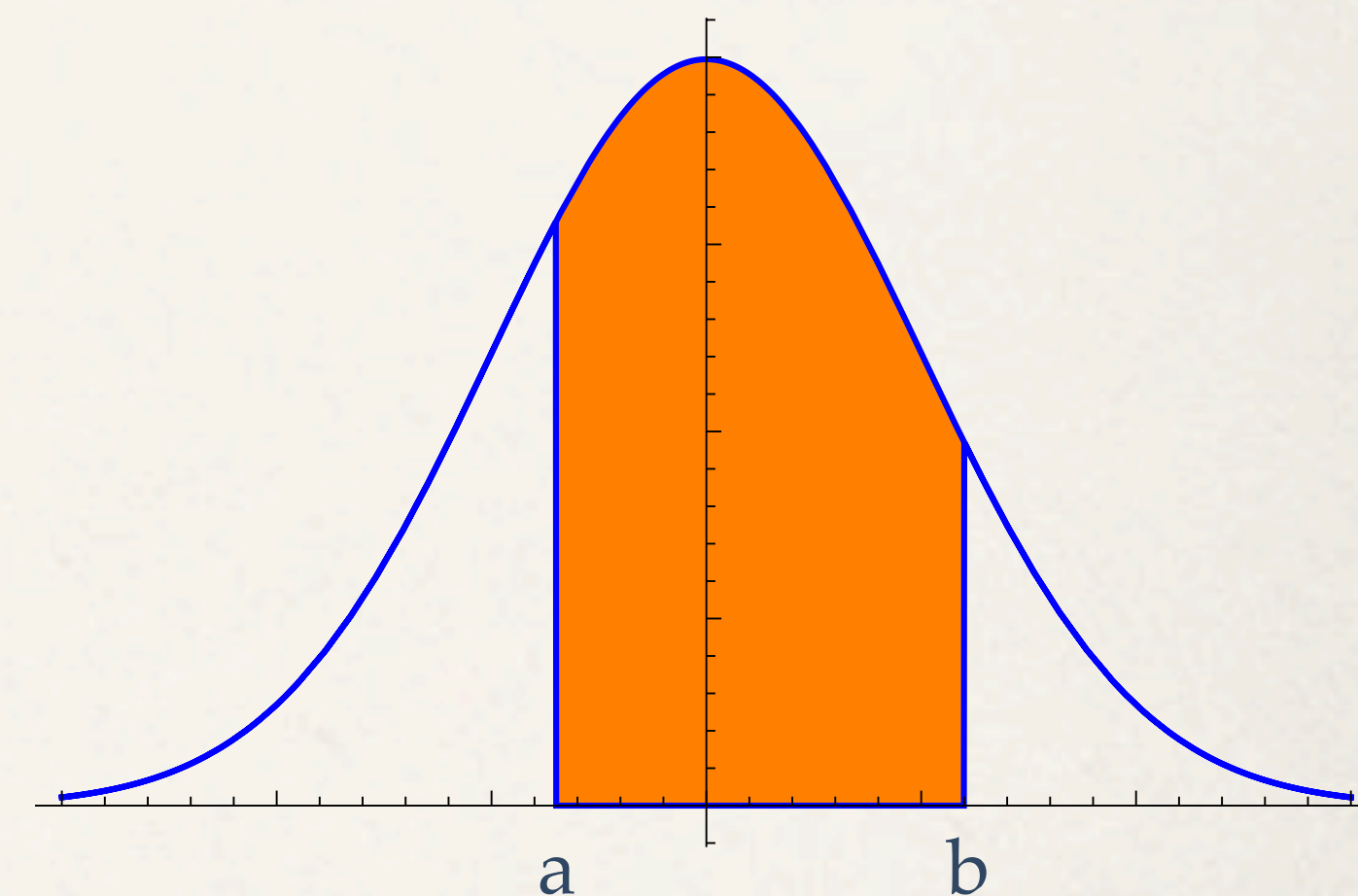
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Applications

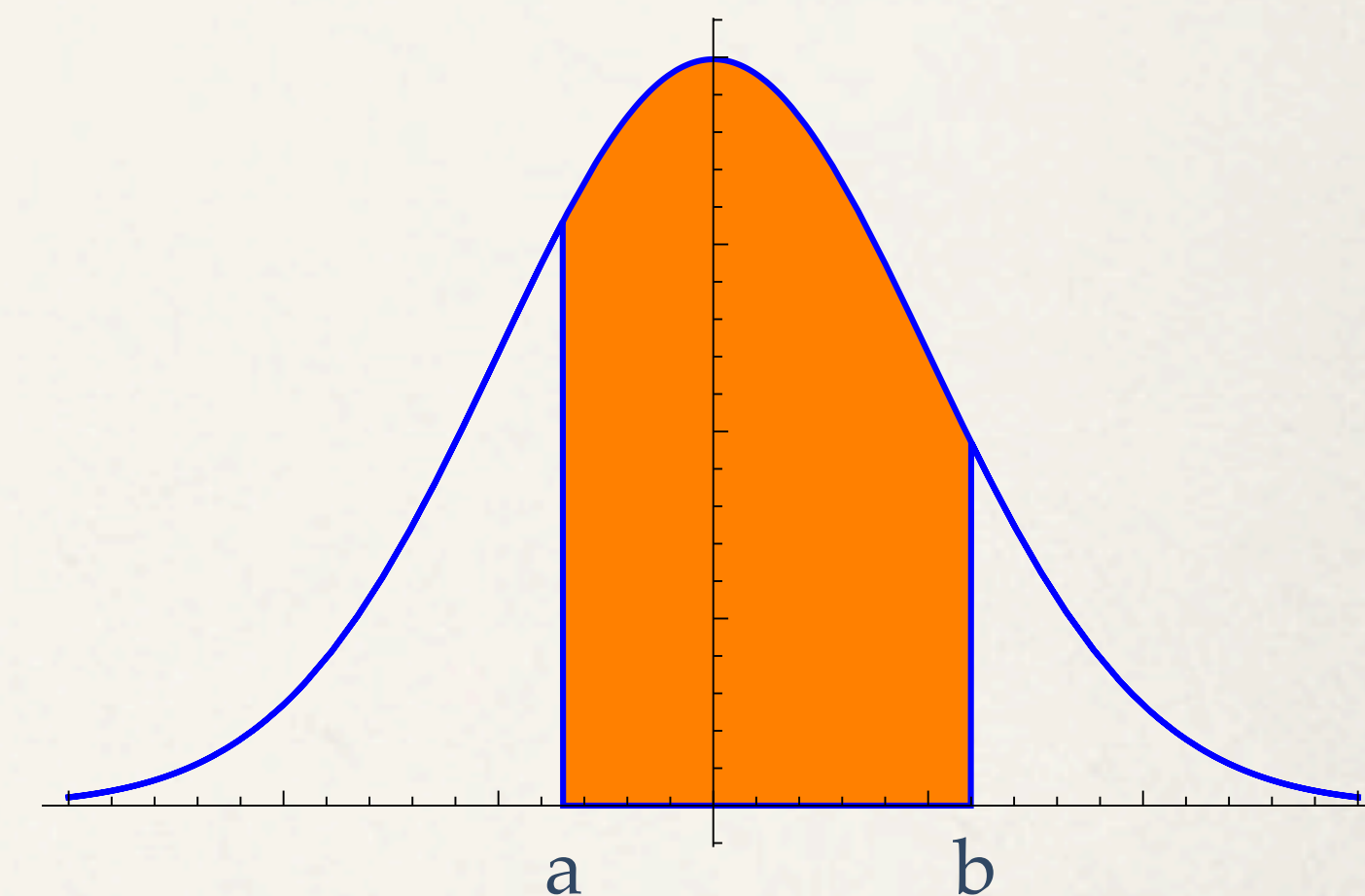
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Applications

- ✧ Statistics, estimations of a mean, polls, drug testing
- ✧ Biology
- ✧ Physics
- ✧ Astronomy
- ✧ Sociology
- ✧ Engineering
- ✧ Mathematical finance

