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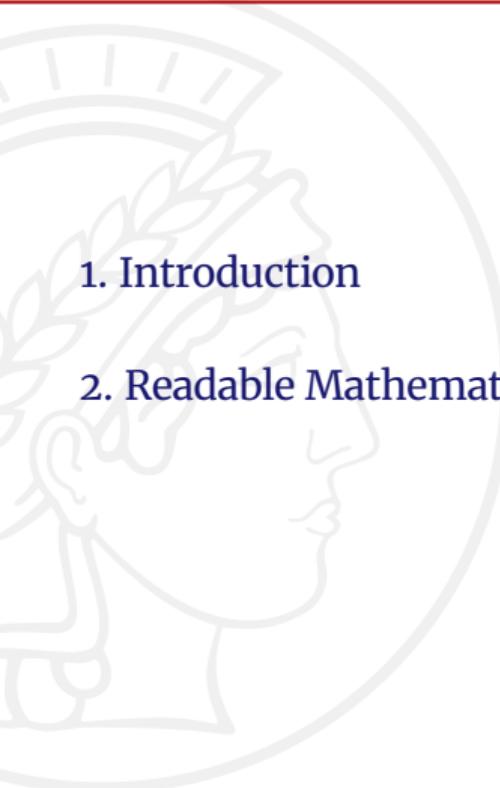
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Outline

1. Introduction

2. Readable Mathematics 42



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- ▶ The default item
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- ❖ The first custom item (adapted from Google slides). Here is how it looks with the “transparent” option set to true: ❖
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- ◆ The third custom item (adapted from fourier-orns)
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Readable Mathematics 42 • A L^AT_EX Example

Let X_1, X_2, \dots, X_n be a sequence of independent and identically distributed random variables with $E[X_i] = \mu$ and $\text{Var}[X_i] = \sigma^2 < \infty$, and let

$$S_n = \frac{X_1 + X_2 + \cdots + X_n}{n} = \frac{1}{n} \sum_i^n X_i$$

denote their mean. Then as n approaches infinity, the random variables $\sqrt{n}(S_n - \mu)$ converge in distribution to a normal $\mathcal{N}(0, \sigma^2)$.