

$$\mathbb{P}\left(-t\langle z\langle t\rangle = \Lambda - \lambda\right)$$

$$\mathbb{P}\left(\overline{X_m} - \frac{tS_n}{\sqrt{n-1}}(m\langle x_m + \frac{tS_n}{\sqrt{n-1}}) = \Lambda - \lambda\right)$$