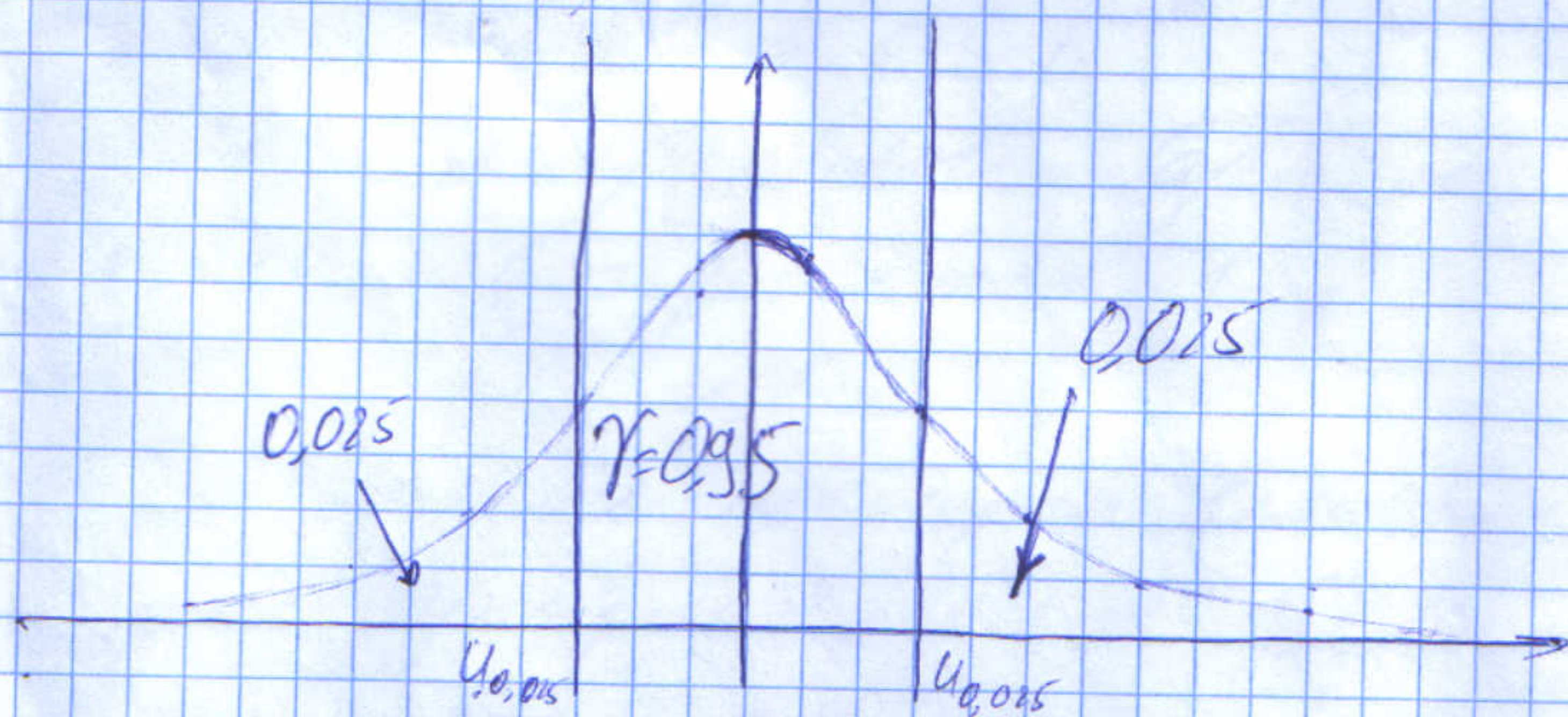


$$\bar{T}(\bar{X}) = \frac{m - \bar{X}}{\sigma} \sqrt{n} \sim N(0, 1)$$



$$P\{-u_{0,975} < \bar{T} < u_{0,975}\} = \gamma$$

$$P\{-u_{0,975} < \frac{m - \bar{X}}{\sigma} \sqrt{n} < u_{0,975}\} = \gamma$$

$$P\left\{\bar{X} - \frac{\sigma u_{0,975}}{\sqrt{n}} < m < \bar{X} + \frac{\sigma u_{0,975}}{\sqrt{n}}\right\} = \gamma$$

$$\underline{m}(\bar{X}) = \bar{X} - \frac{\sigma u_{0,975}}{\sqrt{n}}$$

$$\overline{m}(\bar{X}) = \bar{X} + \frac{\sigma u_{0,975}}{\sqrt{n}}$$

$$u_{0,975} = 1.977$$

$$\frac{\sigma u_{0,975}}{\sqrt{n}} = \frac{8 \cdot 1.977}{\sqrt{10}} \approx 5$$

$$\bar{X} = 3230$$

Межграницы:  $\underline{m} = 3230 - 5 = 3225$

$$\overline{m} = 3230 + 5 = 3235$$

Интервал:  $3225 < m < 3235$ .