

н.с.

H_0 : χ^2 -закон

$H_1: \bar{H}_0$

	I	II	
H	25	52	$\frac{77}{200}$
T	50	41	$\frac{91}{200}$
B	25	7	$\frac{32}{200}$
	$\frac{100}{200}$	$\frac{100}{200}$	

$$\bar{\sigma} = \frac{(25 - 200 \cdot \frac{77}{200} \cdot \frac{100}{200})^2}{200 \cdot \frac{77}{200} \cdot \frac{100}{200}} +$$

$$+ \frac{(50 - 200 \cdot \frac{91}{200} \cdot \frac{100}{200})^2}{200 \cdot \frac{91}{200} \cdot \frac{100}{200}} + \frac{(25 - 200 \cdot \frac{32}{200} \cdot \frac{100}{200})^2}{200 \cdot \frac{32}{200} \cdot \frac{100}{200}} +$$

$$+ \frac{(52 - 200 \cdot \frac{77}{200} \cdot \frac{100}{200})^2}{200 \cdot \frac{77}{200} \cdot \frac{100}{200}} + \frac{(41 - 200 \cdot \frac{91}{200} \cdot \frac{100}{200})^2}{200 \cdot \frac{91}{200} \cdot \frac{100}{200}} + \frac{(7 - 200 \cdot \frac{32}{200} \cdot \frac{100}{200})^2}{200 \cdot \frac{32}{200} \cdot \frac{100}{200}} \approx 20.48$$

$$D \rightarrow \chi^2(2) = \chi^2(2).$$

$$p\text{-value} = \int_{20.48}^{+\infty} 2(+1)dt = \int_{20.48}^{+\infty} \frac{1}{2} e^{-\frac{t}{2}} dt = 0.00004.$$

$$p\text{-value} < L = 0.05 \rightarrow \text{отвергаем } H_0.$$