

Т8			
$\eta$	$A_1$	$A_2$	$A_3$
	яанн	тот	ябнн
B1	25	50	25
B2	52	41	7

$H_0$ :  $\eta$  и  $\eta$  - независ.

$H_1$ :  $H_0$

$$\alpha = 0,05$$

$$p_1 = \frac{100}{200} = \frac{1}{2}, \quad p_2 = \frac{1}{2}$$

$$q_1 = \frac{77}{200}, \quad q_2 = \frac{91}{200}, \quad q_3 = \frac{32}{200}$$

$$\hat{\Delta} = \sum_{i,j} \frac{(n_{ij} - n p_i q_j)^2}{n p_i q_j} \approx 20,5$$

$$\Delta \sim \chi^2(2-1) = \chi^2(2)$$

$$p\text{-value} = P(\Delta \geq \hat{\Delta} / H_0) = \int_{20,5}^{\infty} g(t) dt = 3,53 \cdot 10^{-5} < \alpha$$

$\Rightarrow$  отвергаем  $H_0$