

Kalkulacev dromogheerog leed

$$X_1, \dots, X_m \sim F \quad H_0: F \equiv G$$

$$Y_1, \dots, Y_m \sim G \quad H_0: G(x) = F(x - \Delta)$$

$$\tilde{S}_N = \sum_{i=m+n}^N R_i \quad ES_N = \frac{m(N+n)}{2}$$

$$DS_N = \frac{mm(N+n)}{12}$$

$$\tilde{S}_N \stackrel{H_0}{\sim} N(ES_N, DS_N)$$

is piriipade shod a pozivli primenit' poichdi

oznachit' poichdi c a ti mabratni-lo shody

$$ES_N = \frac{m(N+n)}{2}$$

$$\tilde{S}_N \stackrel{H_0}{\sim} N(ES_N, DS_N)$$

$$DS_N = \frac{mm(N+n)}{12} - \frac{mm}{N(N-1)} \sum_{i=1}^c \frac{t_i^3 - t_i}{12}$$

Tely merainkadi - shodni porovodni

$$R_{S, Rang 1} = \frac{m^3 - m - 6 \sum_{i=1}^m (R_i - S_i)^2 - T_x - T_y}{\sqrt{m^3 - m - 2T_x} \sqrt{m^3 - m - 2T_y}} \quad \text{gde } T_x = \frac{1}{2} \sum_{i=1}^{C_x} (t_i^{x^3} - t_i^{x^2}), T_y = \frac{1}{2} \sum_{j=1}^{C_y} (t_j^{y^3} - t_j^{y^2})$$

$$R_{S, Rang 2} = 1 - \frac{6 \sum_{i=1}^m (R_i - S_i)^2}{m^3 - m - T_x - T_y} \quad \text{(pochud } T_x + T_y \ll m^3 - m)$$

pač $R_{S, Rang} \stackrel{H_0}{\sim} N(0, \frac{1}{m-1})$.

Kendallovo tau

$$\hat{\tau}_B = \frac{a-b}{\sqrt{\frac{m(m-1)}{2} - \frac{1}{2}T_x} \sqrt{\frac{m(m-1)}{2} - \frac{1}{2}T_y}}$$

$$T_x = \sum_{i=1}^{C_x} (t_i^{x^2} - t_i^{x^1}) \quad T_y = \sum_{j=1}^{C_y} (t_j^{y^2} - t_j^{y^1})$$

+ kocher an. rozdeleni.