Literatur (s.a. pdf in studJP) "Arbeitsbach Statistik", Fahrmuir Statistik-Printingsverberdtung, Masmann Klausur WS 22/23 A 1) Chi-Quadrat-Anpassungsfest Regula A

1 H: $p_1 = p_2 = p_3 = \frac{3}{15}$ u. $p_4 = p_5 = p_6 = \frac{2}{15}$ $K: p_1 \neq p_0$, this minds Im $j \in \{1, ..., 6\}$ $[p_0] = \frac{3}{15} \quad p_{04} = \frac{2}{15}$ 1: blan Index Nr. des Farbe 2: orange }1,...,6} 15=3+3+3+2+2+2) Region 13 $H: p_1 = p_2 = \frac{2}{8} (= \frac{1}{4}) \quad \text{w. } p_3 = ---= p_6 = \frac{1}{8}$ K. p. ± p., hi, mund em j E { 1, -, 6} $(p_{0}) = \frac{4}{4}$ $p_{03} = \frac{1}{8}$ Test statistik $T = \sum_{j=1}^{K} \frac{(h_j - np_{o_j})^2}{np_{o_j}}$ Text statistik $T = \sum_{j=1}^{n} \frac{n_{j,0,j}}{n_{j,0,j}}$ h; absolute Hank their table No. i

A: $T = \frac{(28 - 120 \cdot \frac{3}{45})^2}{120 \cdot \frac{3}{45}} + \frac{(27 - 120 \cdot \frac{3}{45})^2}{120 \cdot \frac{3}{45}} + \frac{(20 - 120 \cdot \frac{3}{45})^2}{120 \cdot \frac{3}{45}}$ + 1 - (15 - 120. 2)², 3 $= \frac{91}{418} \approx 1.9 + 11.07 = \chi_{6-1}^{7ab} = \chi_{k-1}^{2} = \chi_{k-1}^{2} = 1.0.05$ d.h. When H fin Region A nicht 7.N. 0.65 ab, also kann 2.N. 56 nicht ausspechlossen werden, dan die MAM Tritc aus Rejon A stammt.