6 200 Konmpoluppum ussei 1 pazi: 181 rel 2 paza: 3 rel P(A) = p 1 - P(A) = q 1 -IAi = 0 - nolnes royana cosanceca 1 = C20/4 6/pq + C2p2 $P(A_0) = q^2$ $P(A_1) = 2pq$ $P(A_2) = p^2$ $P(A_0) = q^2$ $P(A_1) = 2pq$ $P(A_2) = p^2$ $P(A_0) = q^2$ $P(A_1) = q^2$ $P(A_0) = q^2$ $P(A_1) = q^2$ $P(A_1) = q^2$ $P(A_2) = p^2$ $P(A_1) = q^2$ $P(A_2) = p^2$ $P(A_1) = q^2$ $P(A_2) = p^2$ $P(A_1) = q^2$ $P(A_2) = q^2$ $P(A_2) = q^2$ $P(A_1) = q^2$ $P(A_2) = q^2$ P($\Delta = n = \frac{2}{r} \frac{(P(Ai) - Pi)^2}{P(Ai)}$ $= h \left(\frac{(q^2 - \frac{10}{h00})^2}{a^2} + \frac{(pq - \frac{181}{h00})^2}{2pq} + \frac{(p^2 - \frac{9}{h00})^2}{p^2} \right)$ $L = \Pi \rho_i = (q^2)^{10} (2\rho q)^{101} (\rho^2)^9 = 2^{181} \rho^{199} q^{201} =$ $=2^{181}p^{199}(1-p)^{201}$ lu L= 199 lup + 201 lu(1-p) + 186 ln2

$$\frac{\partial \ln L}{\partial p} = \frac{199}{p} - \frac{201}{p} = 0$$

$$\frac{199 - 199p}{p} = 201p$$

$$\frac{\partial^2 \ln L}{\partial p^2} = \frac{199}{p^2} - \frac{201}{(1p)^2} < 0 \rightarrow \max$$

$$\Delta(\tilde{p}) = (31, 23466 \quad \text{in } \chi^{2}(3-1-1) = \chi^{2}(1)$$

$$\int_{\chi^{2}(1)}(\alpha) = \frac{(1/2)^{1/2}}{\Gamma(1/2)} \chi^{(1/2-1)} e^{-1/2} \chi = \frac{e^{-1/2}\chi}{\sqrt{2\pi\chi}}$$

$$\Gamma(1/2) = \int_{-\sqrt{2}}^{\infty} \frac{e^{-2x}}{\sqrt{2x}} dx = 2 \int_{0}^{\infty} \frac{e^{-2x}}{2} dx = \sqrt{15} \cdot 2 = \sqrt{15}$$

$$\rho\text{-value} = \int \gamma_{\chi(1)}(\alpha) d\alpha = \int \frac{e^{-1/2} \pi}{\sqrt{2 \bar{\nu} \pi}} d\alpha = 131/2$$
131/2

$$=\frac{1}{\sqrt{2\pi}}\int_{131/2}^{\infty}\frac{e^{-t^{2}/2}}{t}2tdt=\sqrt{\frac{2}{5}}\int_{131/2}^{\infty}e^{-t^{2}/2}dt=$$

$$=2,2\cdot10^{-30}$$

 $\Delta = \sum \left(\frac{mij - np_i q_i}{np_i q_i}\right)^2 \sqrt{\chi^2((3-1)(2-1))} = \chi^2(2)$

$$\Delta = \frac{\left(25 - 200 \frac{1}{2} \frac{77}{200}\right)^{2} + \left(50 - 200 \frac{1}{2} \frac{31}{200}\right)^{2}}{200 \frac{1}{2} \frac{77}{200}} + \frac{200 \frac{1}{2} \frac{31}{200}}{200}$$

$$+\frac{\left(28-200\frac{1}{2}\frac{32}{200}\right)^{2}}{200\frac{1}{2}\frac{32}{200}}+\frac{\left(52-200\frac{1}{2}\frac{77}{200}\right)^{2}}{200\frac{1}{2}\frac{32}{200}}+$$

$$+\frac{\left(41-200\frac{1}{2}\frac{91}{200}\right)^{2}+\left(7-200\frac{1}{2}\frac{32}{200}\right)^{2}}{200\frac{1}{2}\frac{91}{200}}\approx$$

 ≈ 29.486

$$\int_{\mathcal{T}^{2}(2)} (x) = \frac{(1/2)^{\frac{2}{12}}}{\Gamma(2/2)} x^{\frac{2}{2} - 1} + \frac{1}{2} x^{\frac{2}{2} - 1} = \frac{1}{2} e^{-\frac{1}{2}x}$$

$$p\text{-value} = \int f \chi^{2}(2) (\alpha) d\alpha = \frac{1}{2} \int e^{-3/2} d\alpha = 20,486$$

$$= 0,0000356055 \quad \langle \alpha = 0,05 \rangle$$

$$\Rightarrow \text{ oremo yberewho omberiaen } H_{0}$$

$$= 90000356055 << 9 = 905$$

2 потока	m	300	Tenobi	K	I=600
	2	3	4	5	
1 nomok:	33	43	80	144	
2 homok:	39	35	72	154	
	72	78	152	298	
Ho: homore				<i>QSC</i>	
M: Flo					
$\Delta_1 = \sum (n_i)$	'j — w l nj P(A)	0(4;)) ²	- M T	×2((4-1	1)(2-1))=X²(3)
$A_{1} = \frac{(33 - 300)}{300 \frac{7}{60}}$	2,	+ -	700 7	8	+
(8n-30	0 62	2 /	60. U-300	298 j	2_
+ \(\begin{aligned} \(-\frac{6}{6}\end{aligned} \)	52	- + ^C	300 25	38	~ 1,038
<u> </u>	<i>0</i> 2)		60	O	

$$A_{1} = \frac{\left(35 - 300 \frac{72}{600}\right)^{2}}{300 \frac{72}{600}} + \frac{\left(35 - 300 \frac{78}{600}\right)^{2}}{300 \frac{78}{600}} + \frac{\left(32 - 300 \frac{52}{600}\right)^{2}}{4 + \frac{\left(32 - 300 \frac{52}{600}\right)^{2}}{600}} + \frac{\left(34 - 300 \frac{298}{600}\right)^{2}}{300 \frac{298}{600}} \approx 1,03$$

$$A = A_1 + A_2 \approx 2076$$

$$A = A_1 + A_2 = 2_1076$$

$$f_{\chi^2(3)}(x) = \frac{(1/2)^{3/2}}{\Gamma(3/2)} x^{(\frac{3}{2}-1)} e^{-\frac{1}{2}x} = \frac{2\sqrt{x}}{2\sqrt{2\pi}} e^{-\frac{1}{2}x}$$

$$= \frac{\sqrt{2}}{\sqrt{2\pi}} e^{-\frac{1}{2}x}$$

$$\rho - Value = \int f_{\chi^2(3)}(x) dx = \frac{1}{2\sqrt{2\pi}} e^{-\frac{1}{2}x}$$

$$= \int_{2048}^{\infty} \sqrt{2\pi} e^{-\frac{1}{2}x} dy = 9856376 > 0.0000$$