Wheel: 26 Mputs => 26 suppers #ways = 26!

ones ilok whiles 3 whats: 26! (26!-1) (26!-2) 6.56 ×10 Plugboard: 26 holes 27 Feb 2016 1st cable # mays = (26) 2 nd cable # ways = (24) 3rd cablu k coubles thanks in (28-28) = (26)(24)(22) - (28) # possible whets Harays E (.22) 151 1181 14

S18 9373

* roflector Stanting positions After capture. Hways (5) 3.26.26.1.8xh = 1x10 Pins: 282 (S) 37) 28-20 9.3×10113 NZ378 791×10

Examples: fair roll à 6-sided die, let N= number et the side up Ns rendom variable two kinds < discrete P(N=Z)=== P(NCS)EE P (N=7)=0 P(NCO) 20 whood P(N=K) for 480, 1, , --)

need to show: gr-1 p >0 /cs Sometric Distribution Unitorn Distribution -P(N=K)={5 P(N=K) 78 KT all non-zero at the props ar the semme toou. K=1,21-, M K5 62, 5. equally likely 01P51 8 6 p = 1= p & 2 = 1-0 p K50 or K3M+1 8= K-1 1-15 X

Toisson P(Nek) 1 XTO-Y 6x 1/+x+1/1 + x/ +x+1 1/2 Distribution roisson probs >= average number >