Caronical Equation for Allocation Processes & S-Pro-outgair a insert emyer whall eggs while - Syn-overgine a multisout though life (- gregnio-s- many eggs pur hist - Hosts come in various sizet - Chance that offspring sorvines baffylash declars w/ eggs land Proffsprog no host size C, clutch land in host 50 ~ \$ = 50 = 1 Model for p(c) P(c) = 50 [1- (c-1)] P(c) | X<1 | X>1 f(c) = E {# if offepry energy from clutch of size cs = Cp(c)

Consider multiple host types, of type i $p(c) = 1 - 2\lambda i = prob of no encounter$

16.3 gx(t) = egg compliment et T = time of first frost - if female egg worker is held constant, Clotch size T as toT F(Ti, t) = Maximum expected accomulated offsprog production botom to + T given egg compliment 13 X(t) = x F(R, T) = P -X/th=eggcomplimate t (F(A)=max. F(x,t)= (1- Zx;)e-45-1 F(x, ++1) No excounter survives and align egg comp. + = 15.1 = 2 i max {fi(c) + e + (x-c, ++c+ta)} P(c)= yo.c. ~ mortality for layor ta= time it takes to
access host Maximitation results in C*(x,i,t) = optimal clutch size for individual ginn host type i @ time t when I have x eggs as yot, et let, which I feture fither and I f(c) 1.e. less likely you will survive \$,50 consent
fitness more important, so expect + cloth
sizus for + 40