Orenian

Buth fly, us. wasps.

(Continuous prentes & populates.

· Sp Social Spider.

· Boton Porusitism.

behovorial phenoty pe

(B) Modely Bulled us worps.

- . The model
- · Stebility of the ODE
- · Apprex. he PDE. ul Legran fin.

Buthty w. weips. **(£)**

(Uviger et al)

Bully - 2 sprcs. o ku a) law eggs in lage clutches s) copy eggs in see many small clutches

Make - Mich Morks the fench

Moting - Fence enits a pheremon & othert a mole.

All mony - Male might ent an "arti- aphrodesia" to dissued oth males.

Mode Po: decreer chan oth rude will more up a fende. - dec. computition.

Female Pn: Reduces amount of time 1 associal all being pertied by male. Can concentrate a large 1988.

Car The warps.

The compi can defect the arti-phonenise

+ can fell if a fende his indeed

> hitch a rich a the fence

Liet fill CSS (Cid.

Jump off + (c) poresister CSS (peresister)

2 species - behavior seem to be britten

behavior is formed.

Paper - There is selection pressure and the bulleton to streduce up of arti-phermone approdision.

anti-aphrodesian 1

grech soon @ personal sucus.

dec. success out. mosp

Glubet "The rybt below.

Modely

(Loch up)

computeretalize between bothfle that eggs in the Schouler of those that do not.

 $(p_1)^4 = \cdots$

Citatian.

motival - this is a general behavior of the car be switch a as off.

Problem Doe not seen to be so cut the dry!

Q - Moss any body tech this as a court dist?

Continue power dist. as a parash

Cost Massa Kesser. Kein and also wright.

Social Spiles

pop word paretun

Kelser @ also wright. ed soud spices. describe the spide. "puth" test. hot the of of our. how lay to recov. A meen of assession a pet-lang. Re1- (+, it is a cont. dist! nultiple goes + combinet of gen au resposible & this couplers behould. => variety in the colony mecessay! ox/ Rotet et al. tool Towning "Animal Persondits" Various traits + personalits vary gerdie taits - also sotution dependent on: secrety of Lod chaps boddiers
but of some annels. > parasits alte bosts behaviours + impacts von by individual. => variation in a pop. A cred a pos. feedband loop & for broad pup inches (?) (E)

$$b_{t} = Td \Theta K \Theta b (1-b) - T\Theta TW \Theta \frac{\omega b}{c+kb} + \frac{\pi}{8} T b b 0$$

$$w_{t} = -dT \omega + a \Theta T \bullet K \int_{0}^{\Theta} \frac{\omega b}{c+kb} d0$$

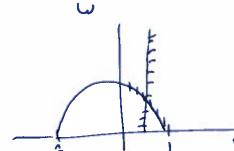
$$T = \frac{1}{d}$$

$$\overline{O} = \frac{d}{dk}$$

$$b_{+} = b_{0}(1-b) - 0 = \frac{\omega b}{\hat{c}+b} + \hat{u}b_{00}$$

$$w_{+} = -\omega + \hat{a} = \frac{\omega b}{\hat{c}+b} = 0$$

$$\Theta b \left[1-5-\frac{\omega}{2+b} \right] = 0$$



$$w \left[-1+0\hat{\alpha} \frac{b}{2h}\right]^{20}$$
 $w=0$ $\alpha = 6 = \frac{\hat{c}}{6\hat{c}}$

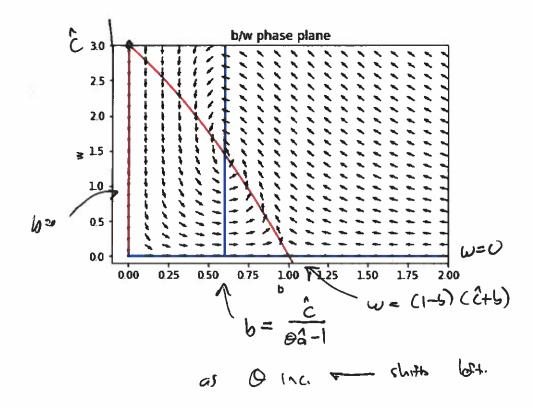
$$00 \frac{5}{2+5} = 1$$

$$00 \frac{5}{2+5} = 0$$

$$00 \frac{5}{2+5} = 0$$

$$00 \frac{5}{2+5} = 0$$

$$00 \frac{5}{2+5} = 0$$



modely Quest?

What about Bourds (o_ditus? (seni-int. introl.)

Should... b (0,+) = 0? o- b (0,+)=0?

In b(0,+)=0 (?) Well poxd?

Approximaty?

$$b(0,t) = \sum_{n=0}^{\infty} \hat{b}_n(t) \mathcal{Q}_n(0)$$
Legun for.

$$Q_{\Lambda}(\Theta) = \Theta \cdot C \quad L_{\Lambda}(\Theta)$$
 $L_{\Lambda}(\Theta) \quad L_{\Lambda}(\Theta) \quad L_{\Lambda}(\Theta)$
 $D_{\Lambda}(\Theta) \quad L_{\Lambda}(\Theta) \quad L_{\Lambda}(\Theta) \quad L_{\Lambda}(\Theta)$
 $D_{\Lambda}(\Theta) \quad L_{\Lambda}(\Theta) \quad L_{\Lambda}(\Theta) \quad L_{\Lambda}(\Theta)$
 $D_{\Lambda}(\Theta) \quad L_{\Lambda}(\Theta) \quad L_{\Lambda}(\Theta)$

thum... $\int_{0}^{\infty} Q_{n}(\theta) Q_{n}(\theta) d\theta = \begin{cases} 0 & \text{if } n \neq n \\ \# & \text{if } N = m. \end{cases}$

if 69 aro th

11m Qn(0)= 0

and, ca un tu recurran relationship

Chatherer=

White (utat baile) = 0 tour

but need son Gover-Rich ptv.