N= M (1-P)T - BSN -MN

S = BSN - PSA + GPS - MS

lotal adult pop. is

N-Nobsmakes

5 - Snober

Q - Prutteg

Reduced States (miny substitution).

$$\frac{dn}{dt} = \lambda (i-p) - \beta_{ns} - \lambda n (F)$$

$$\frac{ds}{dt} = \beta_{ns} - p_{sa} + c_{ns}T - \lambda s_{s}(G)$$

$$\frac{ds}{dt} = p_{sa} - c_{ns}T - r_{q} - \lambda l_{s}(H)$$

$$\frac{ds}{dt} = \lambda p + l_{q} - \lambda l_{s}(T)$$

$$\frac{ds}{dt} = \lambda p + l_{q} - \lambda l_{s}(T)$$

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$$\frac{ds}{dt} = \lambda p + l_{q} - \lambda l_{s}(T)$$

$$\frac{ds}{dt} = \lambda l_{s}(T)$$

The cosespording eigenvalues: -u, - J-u, &-BP -Pa-M. chematic Diagram

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