

#### 4. Modello preda-predatore con sfrottamento

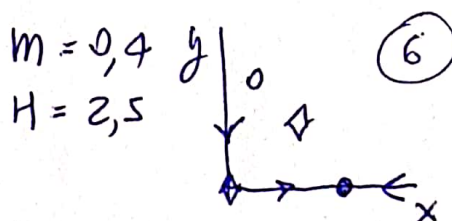
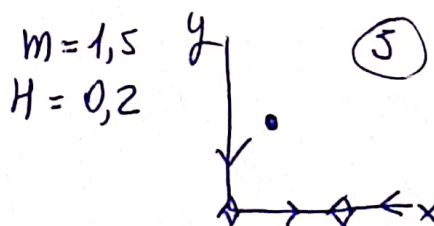
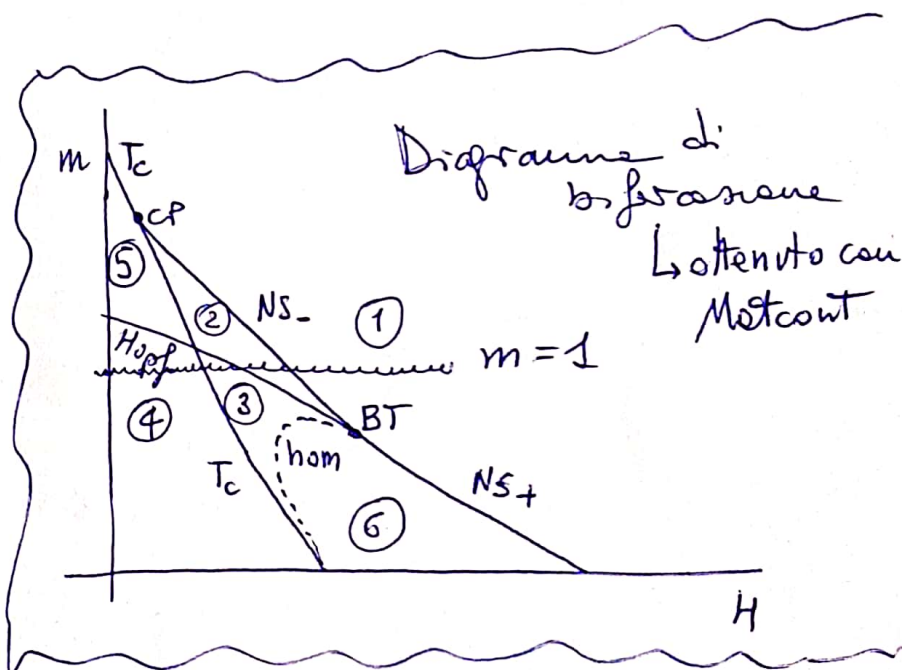
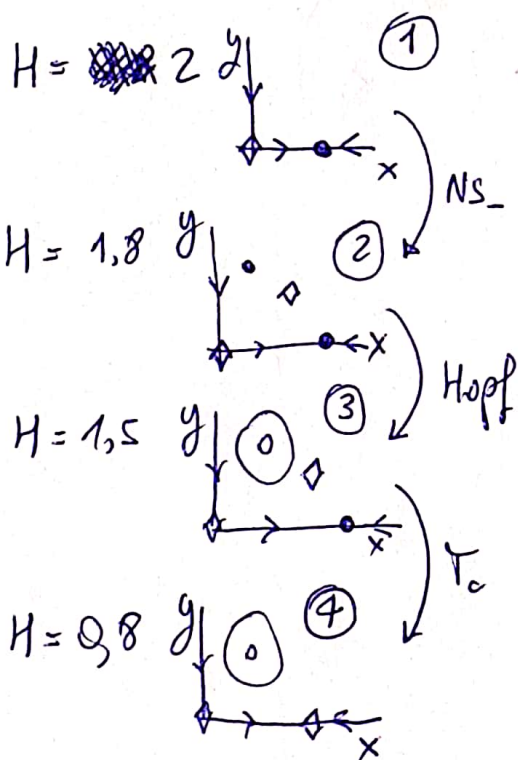
$$\dot{x} = r x \left(1 - \frac{x}{k}\right) - \frac{a x}{b+x} y$$

$$\dot{y} = e \frac{a x}{b+x} y - m y - \frac{d y}{f+y} H$$



alghe zooplankton pesci  
zooplankton  
pesce

$r=2$     $k=6$     $a=3$     $b=2$     $e=0,9$     $m=1$   
 $d=1$     $f=1$



- eq. stabile
- ◊ sella (instab)
- repulsore (instab)

file: simula, bifo-mH