

$$\mu < \frac{\omega_y}{\sqrt{3}}$$

Stability of the trivial solution of the SHM+NES (Eqs. (17))

Unstable

Stable

Domain 0

Number of Fixed Points (FP) of the (Eqs. (55))  
 $\equiv$   
 Periodic Solutions of Eqs. (19)

0

1

2

Domain 4

Stable

Unstable

Stable/  
Stable

Stable/  
Unstable

Unstable/  
Unstable

Domain 3

Not  
uncountered

For the  
Stable FP

For the larger  
unstable FP

$N_2^e < N_{2,M}$

$N_2^e > N_{2,m}$

$N_2^e < N_{2,M}$

$N_2^e > N_{2,m}$

$N_2^e > N_{2,u}$

$N_2^e < N_{2,u}$

Domain 1

Domain 2

Domain 1

Domain 2

Domain 3

Domain 4