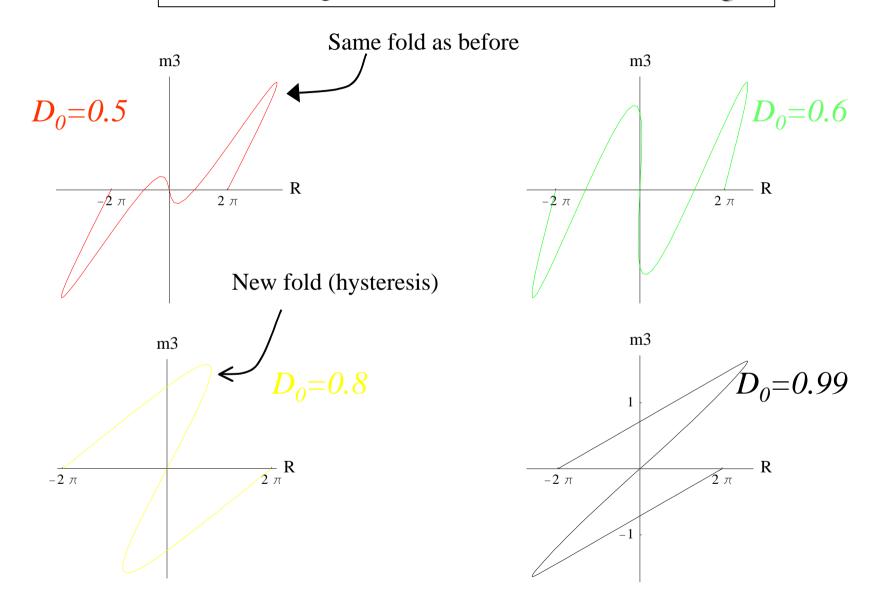
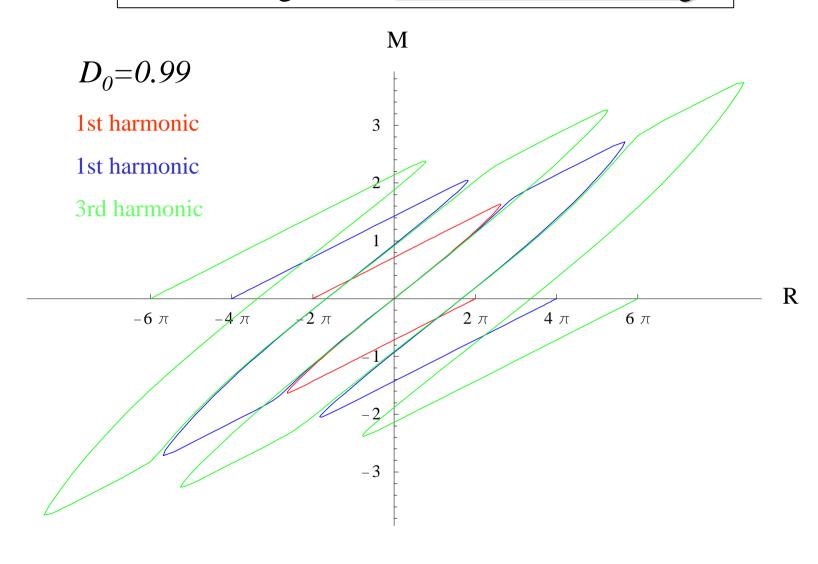
## Finite length rod: rotation without sliding



## Finite length rod: rotation without sliding



## Finite length rod: slightly opened rings

Planar and buckled rings are borders between clamped harmonics

