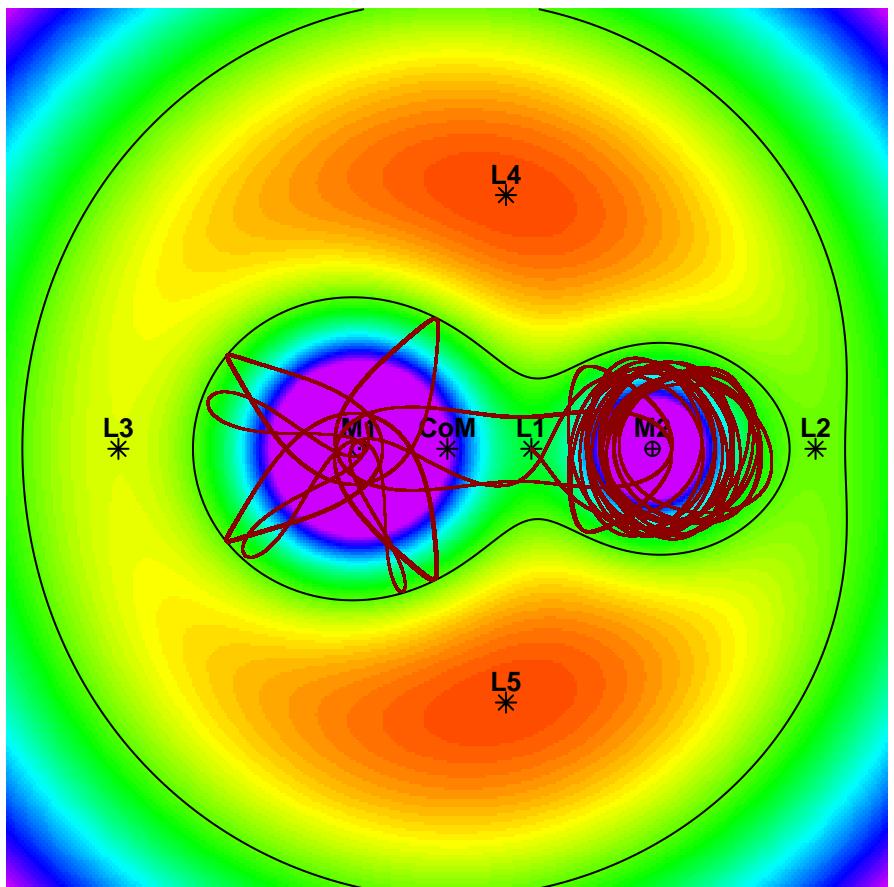


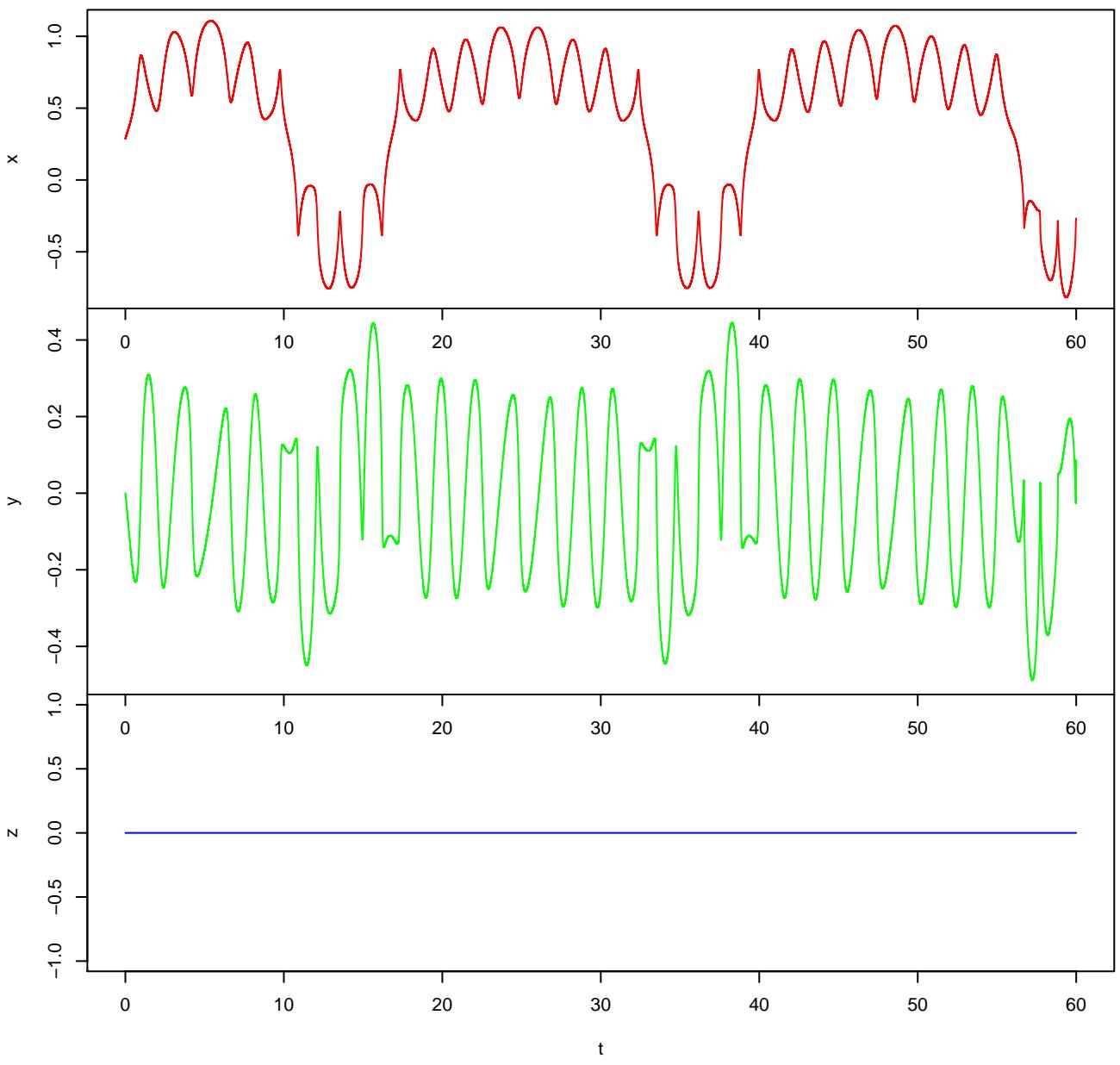
# Synodic Coordinates (rotational reference frame)



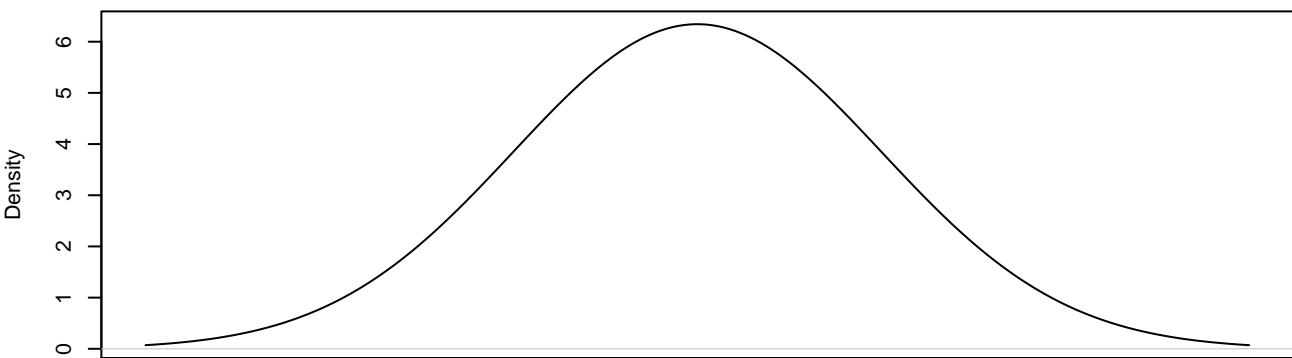
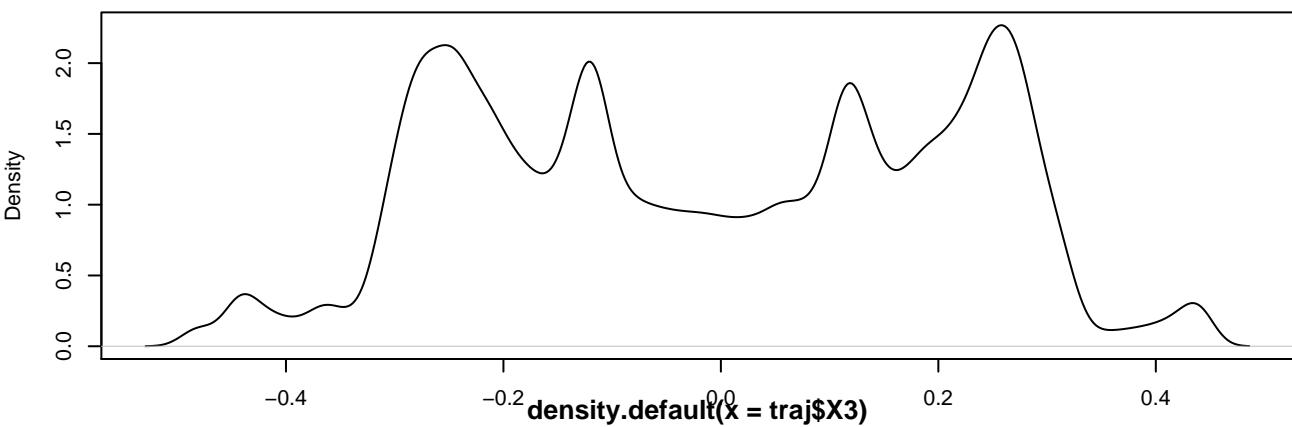
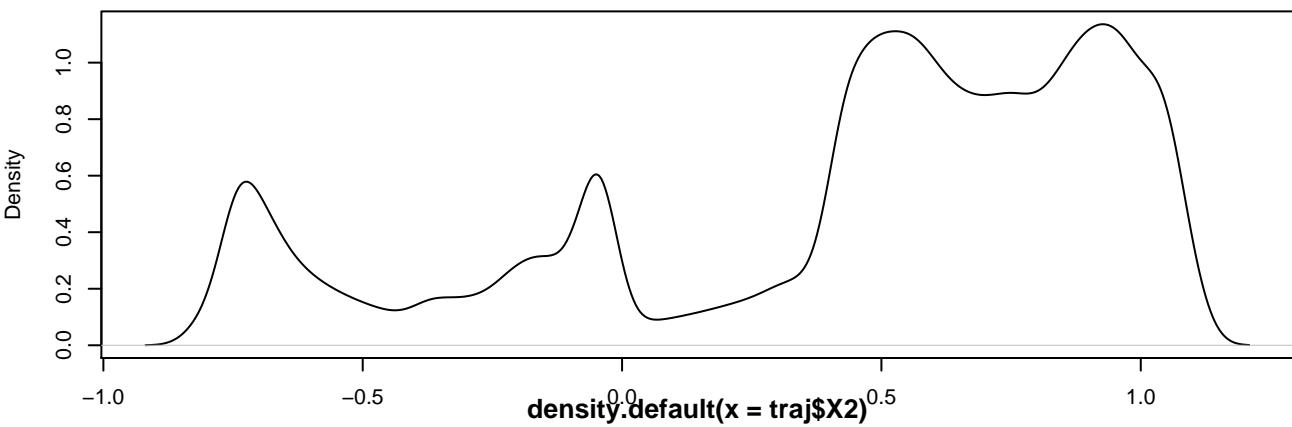
MID

LO

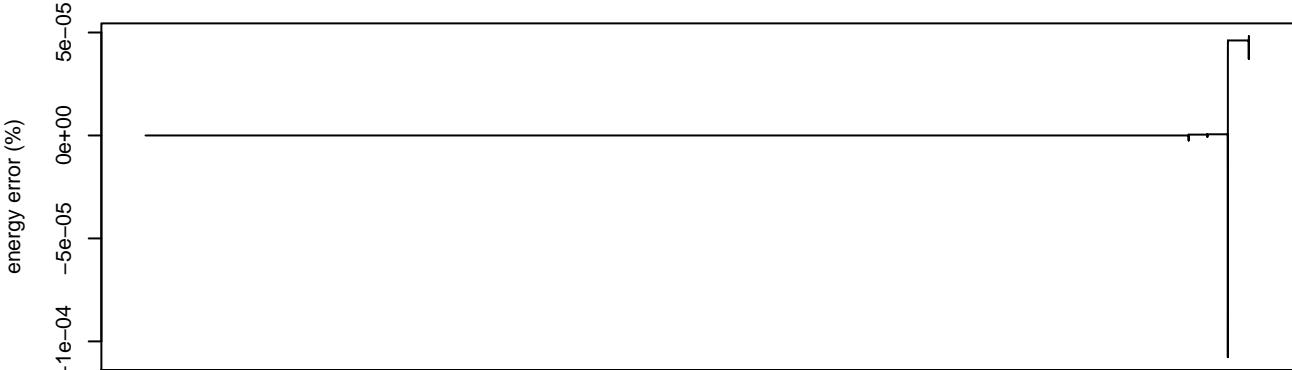
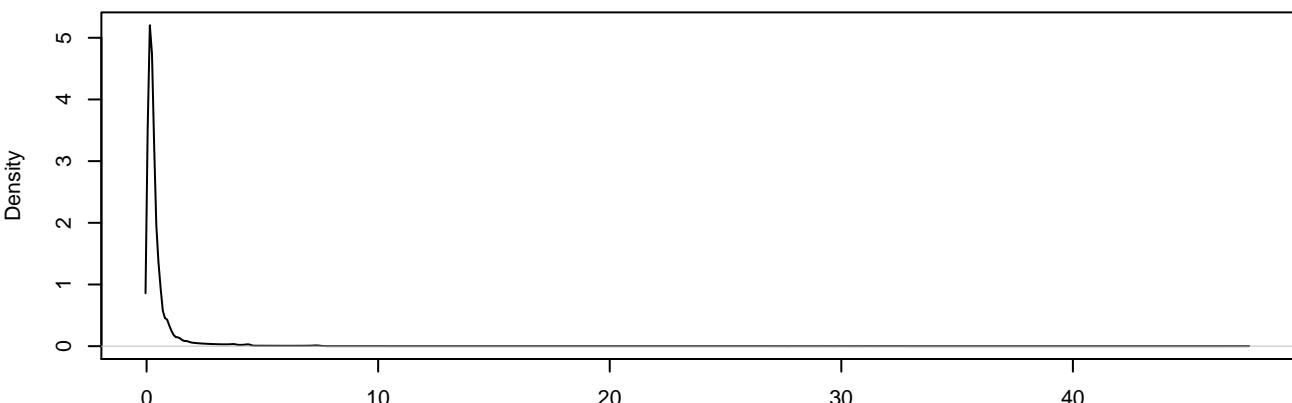
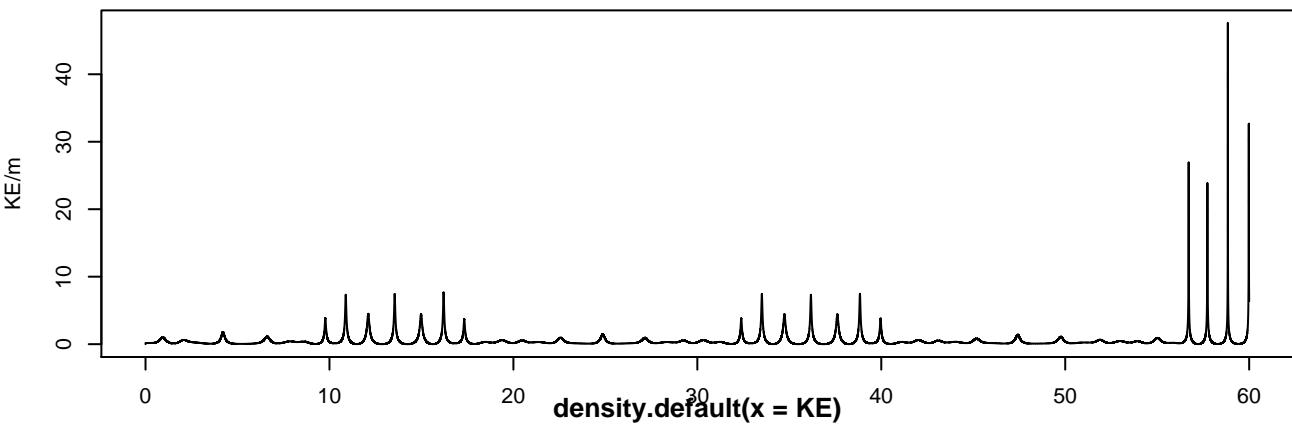
$U(r)$

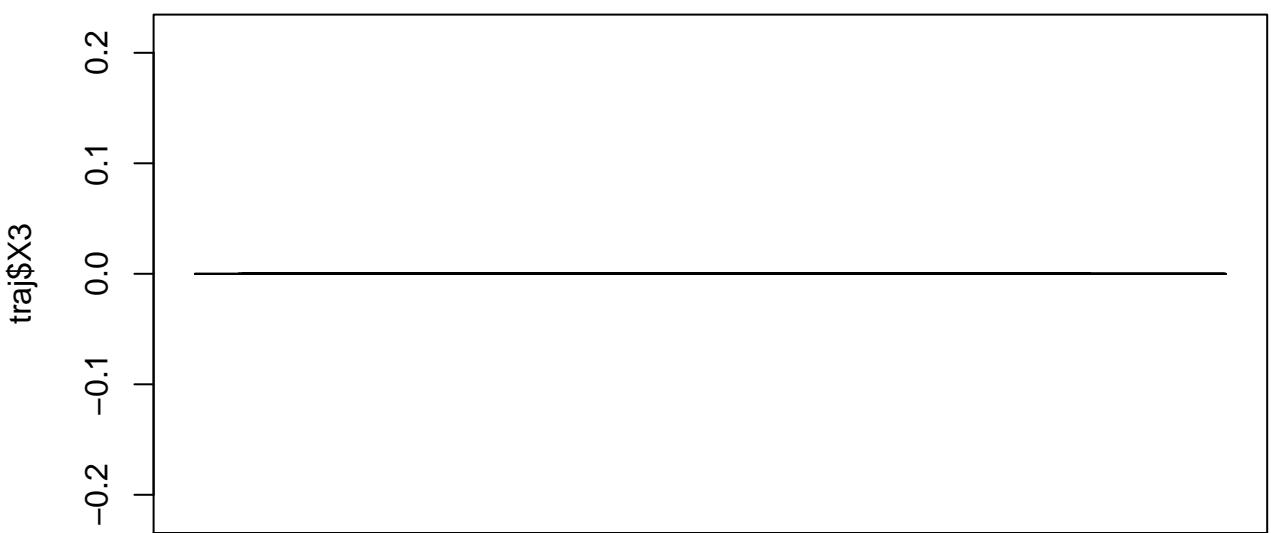
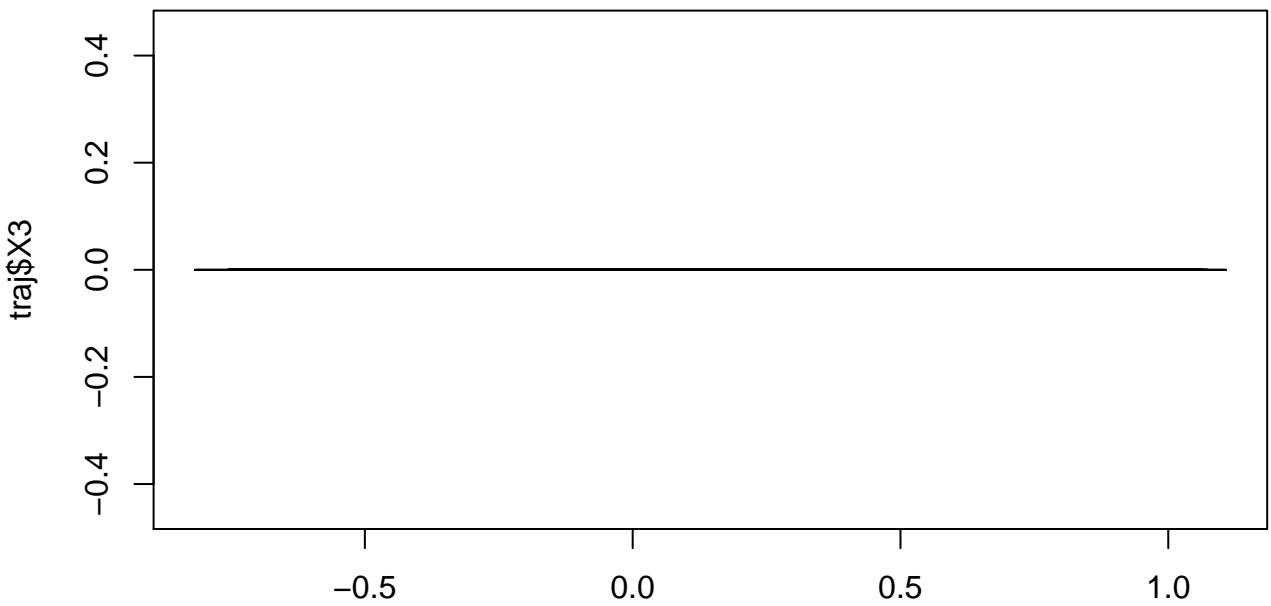


### Position (synodic)

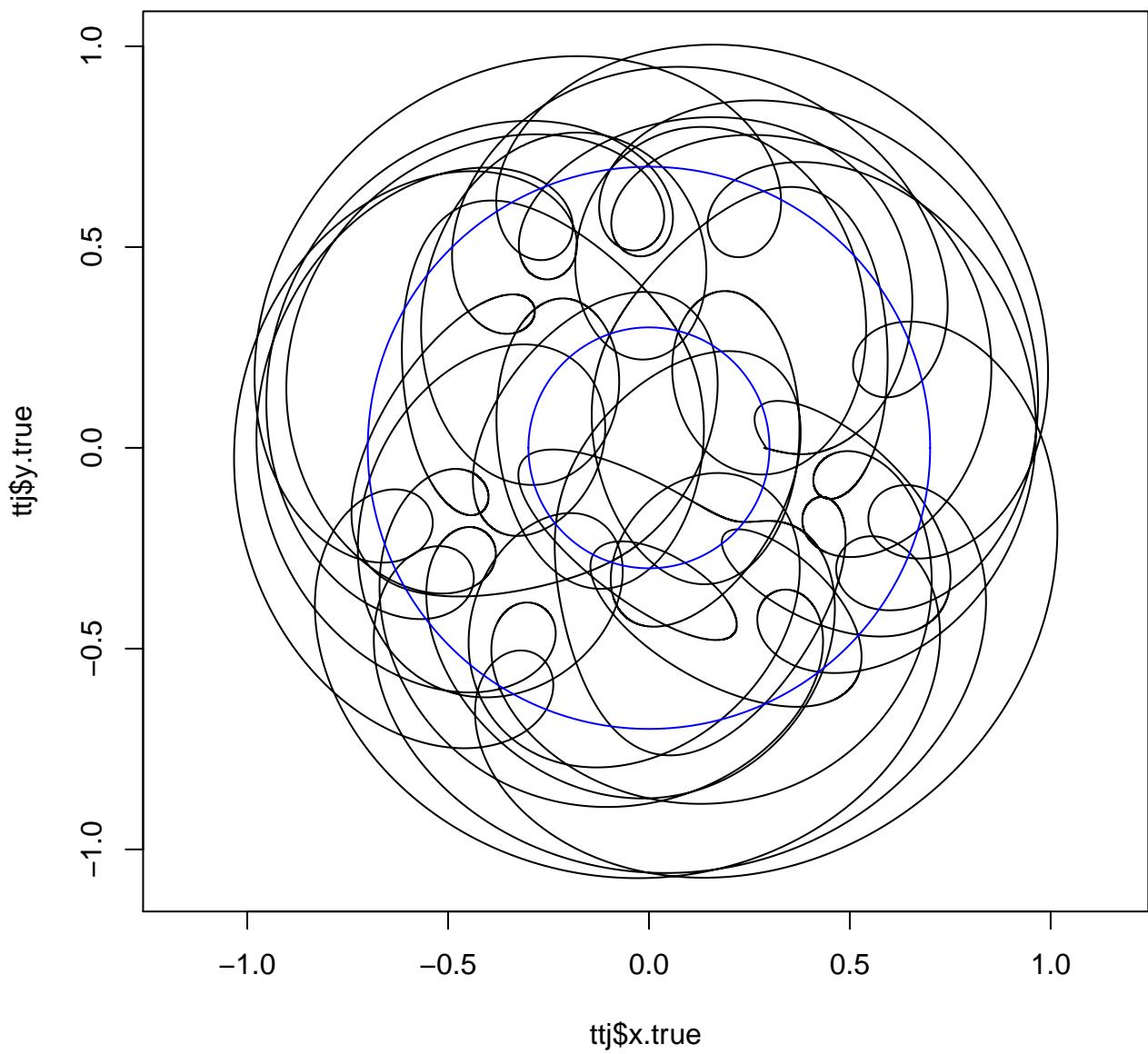


### Kinetic Energy (synodic)





## Inertial Trajectory



```
yini= [1] 0.2865 0.0000 0.0000 0.4100 -0.3900 0.0000  
mu.2= 0.3  
G= 1  
M1= 0.7  
M2= 0.3  
R1= -0.3  
R2= 0.7  
dateStr= interestingOrbits/archive/Tue_Nov_29_23-21-27_2016.R
```