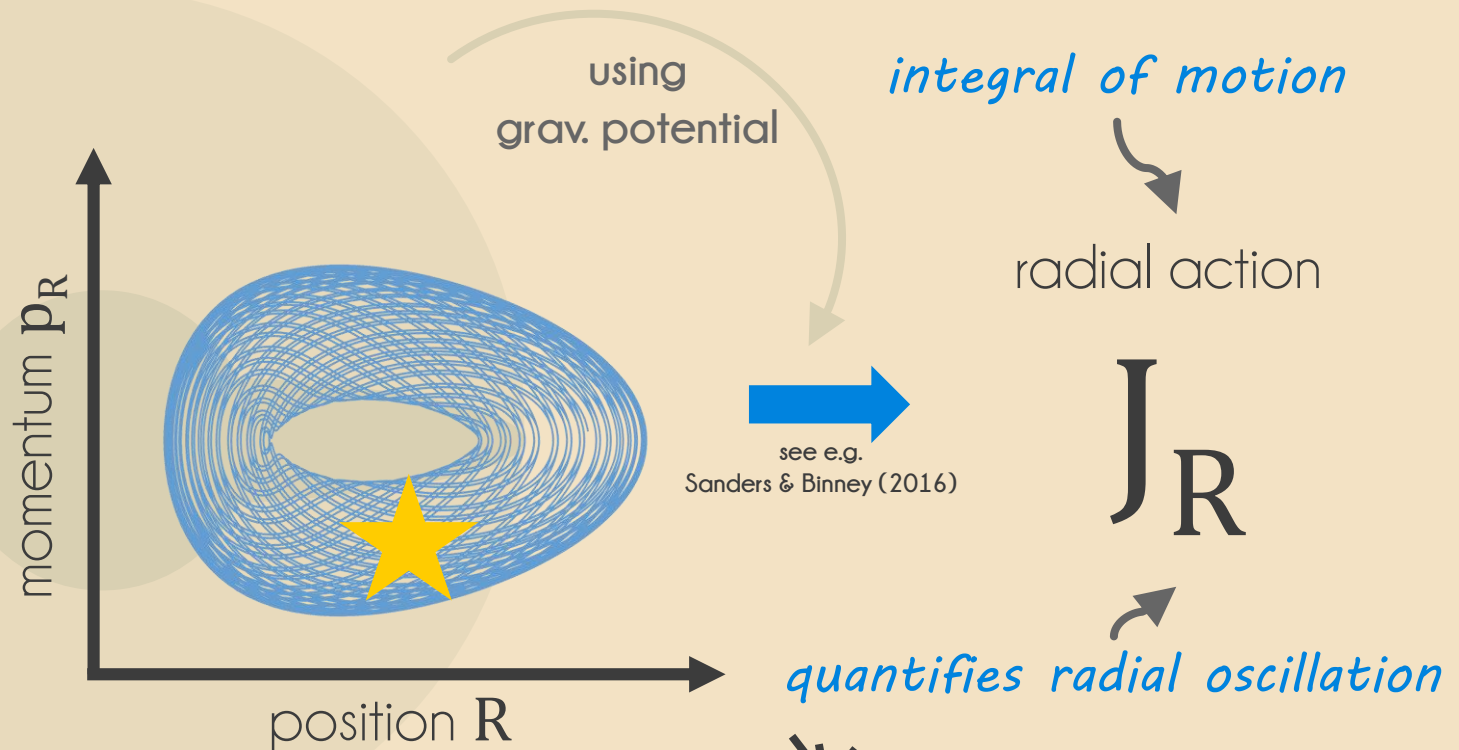


# What are actions?



... analogous for

- vertical action  $J_z$
- azimuthal action  $J_\phi = L_z$  (angular momentum)

*with angles  $\vec{\theta}$ :  
canonical coordinates*



**Actions are  
excellent  
orbit labels.**

