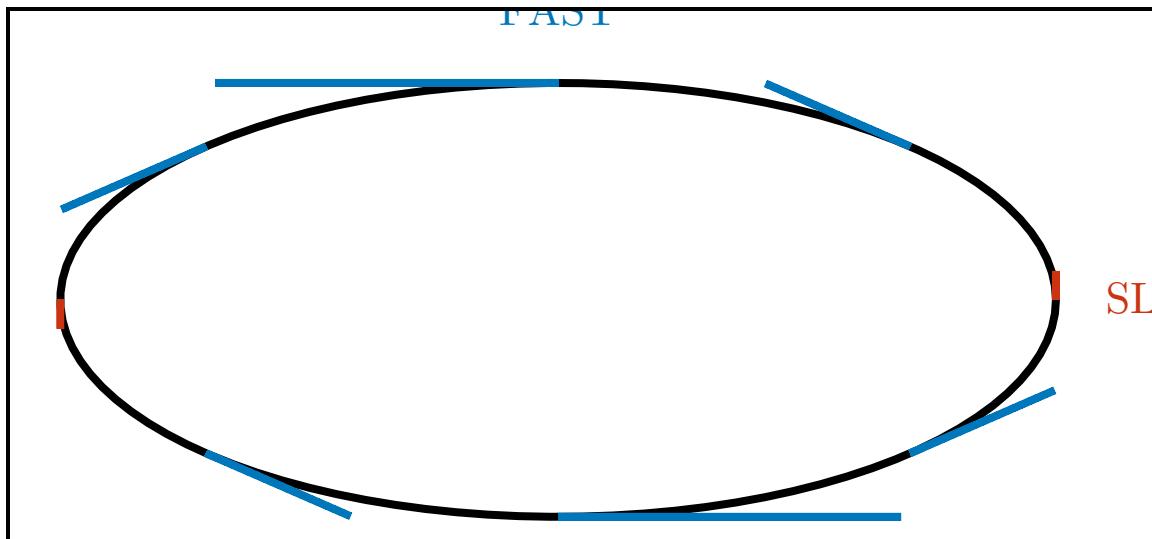


# Physical Mechanism: Curvature-Induced Velocity Reduction

## Velocity Profile on Ellipse



## Clustering Mechanism

1. High curvature  $\kappa$

2. Particles slow down

3. More collisions locally

4. Particles get trapped

5. CLUSTER FORMS