Arras 09/10/24

- Gravity produced by ass in simulation
- Spherical distribution of m r distance away has acceleration of Gm/r^2
- Fluid sloshing around
  - Density not uniform over sphere in theta and phi
  - Denser part = mire gravity
  - For star planet is orbiting around, what is gravity star is feeling?
    - Additional pieces of gravity smaller
    - Variation of gravity in terms of separation = higher powers of r
    - Object closer = smaller r matters
    - Forces that spherical cannot
      - Gravity along lines of motion for sphere
      - BUT for higher order corrections, depend on mass ids., may give rise to tangential force
      - Force changes position and velocity, but change angular momentum
        - Torques change angular momentum
        - Equal and opposite torque on object spinning it up and down
- Understand non spherical dust of matter can give rise to torque
- Gicen result, how to use and how to directly compute non man list from output
- Phi theta r
- Compute total amount of mass inside grid
- Boundary conditions can influence the amount mass
- Each simulation output at each individual Tim
  - At every time step —> single number amount of mass in grid
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