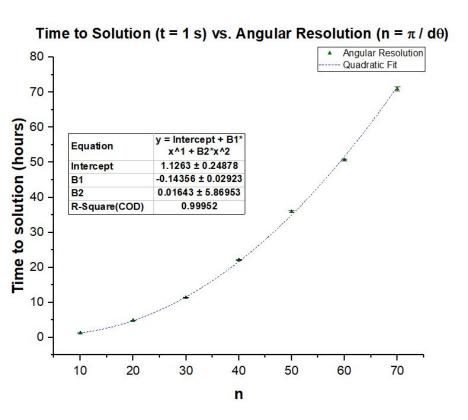
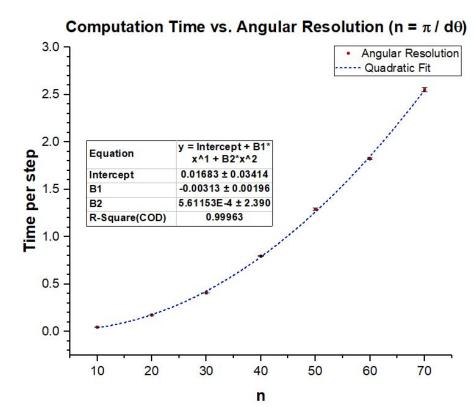
Week 11 Report Spring 2019

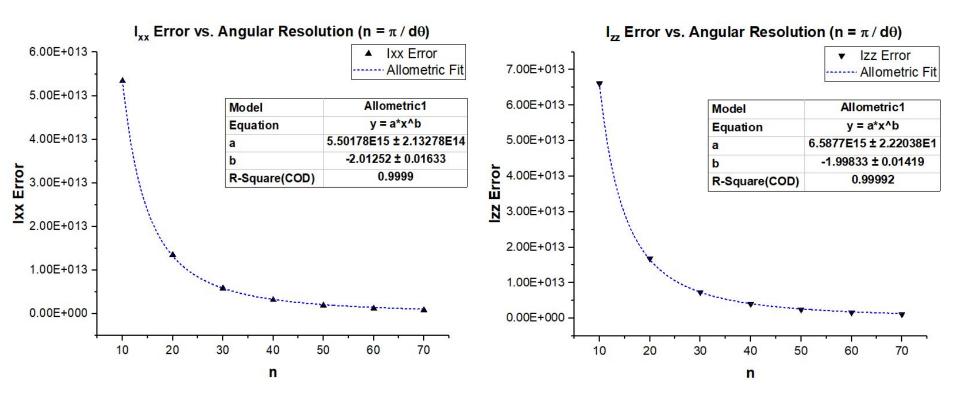
Sam Frederick

Quadratic Relation between Resolution and Computation Time

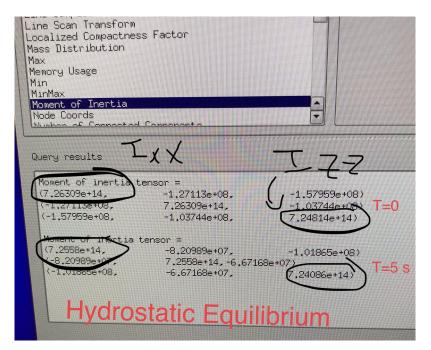




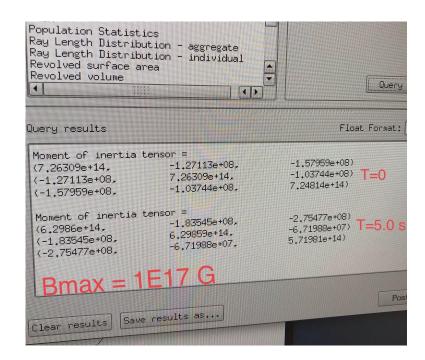
Izz / Ixx Error vs. Angular Resolution



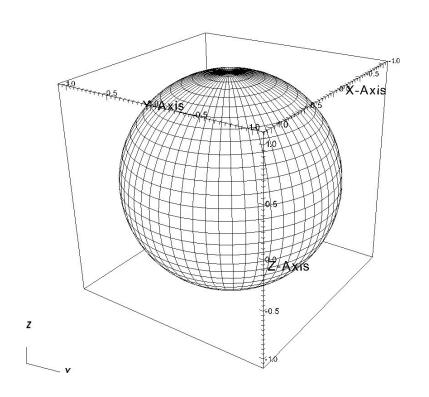
Vislt Queries

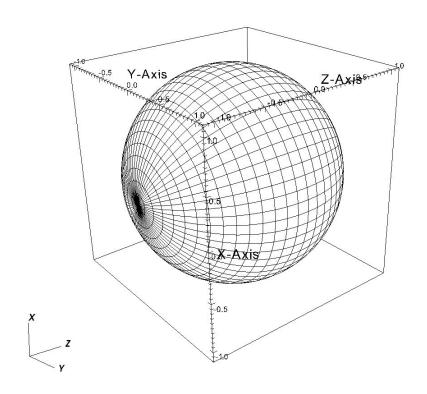


 $\Delta Ixx = 0.00729E14$ $\Delta Izz = 0.00728E14$



Grid Mesh Explains Difference Between Izz & Ixx





Idea

- Volume error is due to difference between outermost grid cells and sphere.
- With sufficiently radial high resolution, the "missing" component for outermost grid cells is small relative to volume of grid cell.
- Could "add back in" missing component (effectively increase dV of outer cells slightly).

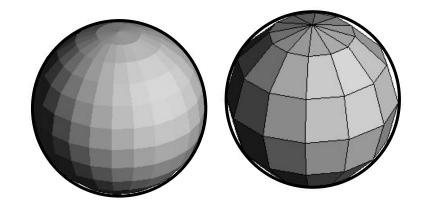


Image credit: Washington University