Verification

1. Geometry

A cube with an edge length of one.

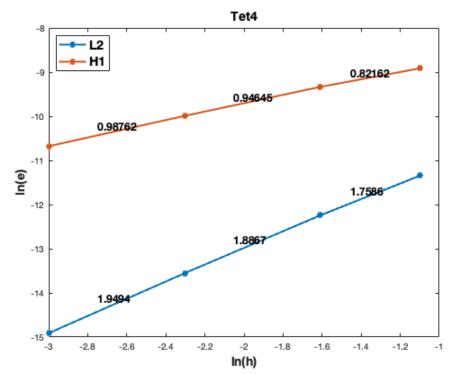
2. Manufactured Solution

$$u_x = axsin(wx)sin (wy)sin (wz)t$$

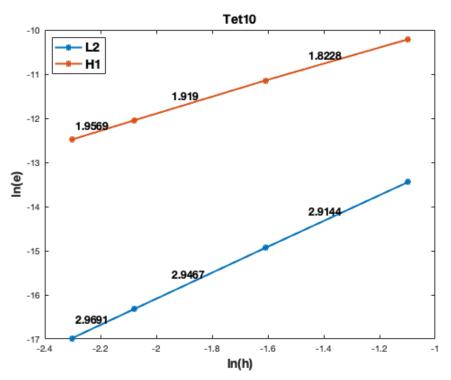
$$u_y = aysin(wx)sin (wy)sin (wz)t$$

$$uz = azsin(wx)sin (wy)sin (wz)t$$

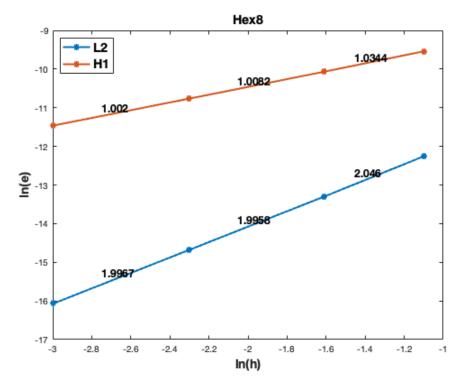
- 3. Size of elements
 1st order elements: 1/3, 1/5, 1/10, 1/20;
 2nd order elements: 1/3, 1/5, 1/8, 1/10;
- 4. Error Analysis
- 4.1 Tet4



4.2 Tet10



4.3 Hex8



4.4 Hex27

