

$$\sum_{i,j,l \in \{-1,0,1\}} A_{G,0,0}^{i,j,l} U_{i,j:l}^h = 0 \quad (1)$$

The eight entries corresponding to the corner nodes

$$A_{G,0,0,0}^{i,j,l} = -\frac{h_x^i h_y^j}{36 h_z^l} - \frac{h_z^l h_x^i}{36 h_y^j} - \frac{h_z^l h_y^j}{36 h_x^i} - \frac{h_x^i h_y^j h_z^l k^2}{216} \quad (2)$$