



$$\hat{H}_1 = \sum_{\substack{x \text{ even} \\ y \text{ even}}} \hat{h}[x, y]$$

$$\hat{H}_2 = \sum_{\substack{x \text{ even} \\ y \text{ odd}}} \hat{h}[x, y]$$

$$\hat{H}_3 = \sum_{\substack{x \text{ odd} \\ y \text{ even}}} \hat{h}[x, y]$$

$$\hat{H}_4 = \sum_{\substack{x \text{ odd} \\ y \text{ odd}}} \hat{h}[x, y]$$