

$$\mathbf{B}[\mathbf{a}_{\text{QU}}, \mathbf{x}_{\text{QU}}] = -2 \text{QU} @ \mathbf{x};$$

$$\mathbf{B}[\mathbf{b}_{\text{QU}}, \mathbf{x}_{\text{QU}}] = \text{QU} @ \mathbf{x};$$

$$\mathbf{B}[\mathbf{b}_{\text{QU}}, \mathbf{y}_{\text{QU}}] = -2 \text{QU} @ \mathbf{y};$$

$$\mathbf{B}[\mathbf{a}_{\text{QU}}, \mathbf{y}_{\text{QU}}] = \text{QU} @ \mathbf{y};$$

$$\mathbf{B}[\mathbf{a}_{\text{QU}}, \mathbf{z}_{\text{QU}}] = -\text{QU} @ \mathbf{z};$$

$$\mathbf{B}[\mathbf{b}_{\text{QU}}, \mathbf{z}_{\text{QU}}] = -\text{QU} @ \mathbf{z};$$

$$\mathbf{B}[\mathbf{y}_{\text{QU}}, \mathbf{x}_{\text{QU}}] = -\mathbf{z}_{\text{QU}} + \epsilon \hbar \text{QU}[\mathbf{y}, \mathbf{x}];$$

$$\mathbf{B}[\mathbf{z}_{\text{QU}}, \mathbf{x}_{\text{QU}}] = -\epsilon \hbar \text{QU}[\mathbf{z}, \mathbf{x}];$$

$$\mathbf{B}[\mathbf{b}_{\text{QU}}, \mathbf{a}_{\text{QU}}] = 0;$$

$$\mathbf{B}[\mathbf{z}_{\text{QU}}, \mathbf{y}_{\text{QU}}] = \epsilon \hbar \text{QU}[\mathbf{z}, \mathbf{y}];$$

$$\mathbf{B}[\mathbf{a}_{\text{QU}}, \mathbf{x}_{\text{QU}}] = 2 \mathbf{x}_{\text{QU}};$$

$$\mathbf{B}[\mathbf{b}_{\text{QU}}, \mathbf{x}_{\text{QU}}] = -\mathbf{x}_{\text{QU}};$$

$$\mathbf{B}[\mathbf{a}_{\text{QU}}, \mathbf{y}_{\text{QU}}] = -\mathbf{y}_{\text{QU}};$$

$$\mathbf{B}[\mathbf{b}_{\text{QU}}, \mathbf{y}_{\text{QU}}] = 2 \mathbf{y}_{\text{QU}};$$

$$\mathbf{B}[\mathbf{a}_{\text{QU}}, \mathbf{z}_{\text{QU}}] = \mathbf{z}_{\text{QU}};$$

$$\mathbf{B}[\mathbf{b}_{\text{QU}}, \mathbf{z}_{\text{QU}}] = \mathbf{z}_{\text{QU}};$$

$$\mathbf{B}[\mathbf{x}_{\text{QU}}, \mathbf{x}_{\text{QU}}] = -2 \epsilon \hbar \text{QU} @ \{\mathbf{x}, \mathbf{x}\} + \frac{(1-s) \text{QU}[]}{\hbar} + 2 s \epsilon \text{QU}[\mathbf{a}];$$

$$\mathbf{B}[\mathbf{y}_{\text{QU}}, \mathbf{y}_{\text{QU}}] = -2 \epsilon \hbar \text{QU} @ \{\mathbf{y}, \mathbf{y}\} + \frac{(1-t) \text{QU}[]}{\hbar} + 2 t \epsilon \text{QU}[\mathbf{b}];$$

$$\mathbf{B}[\mathbf{z}_{\text{QU}}, \mathbf{z}_{\text{QU}}] = -2 \epsilon \hbar \text{QU} @ \{\mathbf{z}, \mathbf{z}\} + \frac{(1-s t) \text{QU}[]}{\hbar} + 2 s t \epsilon \text{QU}[\mathbf{a}] + 2 s t \epsilon \text{QU}[\mathbf{b}];$$

$$\mathbf{B}[\mathbf{y}_{\text{QU}}, \mathbf{z}_{\text{QU}}] = \mathbf{x}_{\text{QU}} - \epsilon \hbar \text{QU} @ \{\mathbf{z}, \mathbf{y}\};$$

$$\mathbf{B}[\mathbf{x}_{\text{QU}}, \mathbf{z}_{\text{QU}}] = -\epsilon \hbar \text{QU} @ \{\mathbf{z}, \mathbf{x}\} - (s + s \epsilon \hbar) \text{QU}[\mathbf{y}] + 2 s \epsilon \hbar \text{QU}[\mathbf{y}, \mathbf{a}];$$

$$\mathbf{B}[\mathbf{z}_{\text{QU}}, \mathbf{x}_{\text{QU}}] = 2 \epsilon \mathbf{y}_{\text{QU}} - \epsilon \hbar \text{QU} @ \{\mathbf{x}, \mathbf{z}\};$$

$$\mathbf{B}[\mathbf{z}_{\text{QU}}, \mathbf{y}_{\text{QU}}] = -2 t \epsilon \text{QU}[\mathbf{x}] - \epsilon \hbar \text{QU}[\mathbf{y}, \mathbf{z}];$$

$$\mathbf{B}[\mathbf{y}_{\text{QU}}, \mathbf{x}_{\text{QU}}] = \epsilon \hbar \text{QU}[\mathbf{x}, \mathbf{y}];$$

$$\mathbf{B}[\mathbf{x}_{\text{QU}}, \mathbf{y}_{\text{QU}}] = \epsilon \hbar \text{QU}[\mathbf{y}, \mathbf{x}];$$

$$\mathbf{B}[\mathbf{x}_{\text{QU}}, \mathbf{y}_{\text{QU}}] = 2 \epsilon \mathbf{z}_{\text{QU}} - \epsilon \hbar \text{QU}[\mathbf{x}, \mathbf{y}];$$

$$\mathbf{B}[\mathbf{x}_{\text{QU}}, \mathbf{z}_{\text{QU}}] = \epsilon \hbar \text{QU}[\mathbf{x}, \mathbf{z}];$$

$$\mathbf{B}[\mathbf{z}_{\text{QU}}, \mathbf{y}_{\text{QU}}] = \epsilon \hbar \text{QU}[\mathbf{y}, \mathbf{z}];$$