

The Yee scheme

Space discretization by staggered grids

$$\mu \partial_t H_3 = \partial_2 E_1 - \partial_1 E_2$$

$$E_1 \left[t, i + \frac{1}{2}, j, k \right]$$

$$E_2 \left[t, i, j + \frac{1}{2}, k \right]$$

$$H_3 \left[t, i + \frac{1}{2}, j + \frac{1}{2}, k \right]$$

