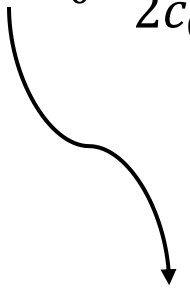
Absorb boundary condition

$$distance = c_0 \cdot dt = c_0 \cdot \frac{dx}{2c_0} = \frac{dx}{2}$$



By Courant Condition:$dt \leq \frac{dx}{\sqrt{n}c_0}$, n is the dimension of the simulation.

Absorb boundary condition

$$distance = c_0 \cdot dt = c_0 \cdot \frac{dx}{2c_0} = \frac{dx}{2} \longrightarrow E_x^n(0) = E_x^{n-2}(1)$$

Absorb boundary condition

$$distance = c_0 \cdot dt = c_0 \cdot \frac{dx}{2c_0} = \frac{dx}{2} \longrightarrow E_x^n(k+1) = E_x^{n-2}(k)$$