$$\frac{\partial u}{\partial t} - \frac{\partial^2 u}{\partial x^2} - \frac{\partial^2 u}{\partial y^2} = b$$

Ignore relativity. $\Rightarrow$ Heat conducting speed $\to \infty$

$$\frac{u[t][x][y] - u[t-1][x][y]}{g} -$$

$$\left(\frac{u[t][x+1][y] + u[t][x-1][y] + u[t][x][y+1] + u[t][x][y-1]}{h^2}\right)$$

$$+ \frac{4u[t][x][y]}{h^2} = b$$

Let $h = 1$.

$$(4 + \frac{1}{g})u[t][x][y] = b[t][x][y] + \frac{u[t-1][x][y]}{g}$$

$$+$$

$$(u[t][x+1][y] + u[t][x-1][y] + u[t][x][y+1] + u[t][x][y-1])$$

$$\Rightarrow u[t][x][y] = \frac{g}{4g+1} b[t][x][y] + \frac{u[t-1][x][y]}{4g+1}$$

$$+$$

$$\frac{g}{4g+1}(u[t][x+1][y] + u[t][x-1][y] + u[t][x][y+1] + u[t][x][y-1])$$