DFT of the Laplacian
$$F_d(u,v) = \sum_{n=-N/2}^{N/2} \frac{N/2}{y^2-N/2} + (n,y) \exp(-zn y(un+vy))$$

$$R(x_3y) = \begin{pmatrix} 0 & 1 & 0 \\ 1 & -4 & 01 \\ 0 & 1 & 0 \end{pmatrix}$$

$$P_{SN} = -4 \exp(0) + \exp(-2\pi i \left(\frac{u}{N}\right)) + \exp(-2\pi i \frac{v}{N}) + \exp(+2\pi i \frac{v}{N})$$

$$+ \exp(+2\pi i \left(\frac{u}{N}\right) + \exp(+2\pi i \frac{v}{N}\right)$$

$$= -4 + \exp(-2\pi j \frac{u}{N}) + \exp(-2\pi j \frac{v}{N}) + \exp(+2\pi j \frac{v}{N}) + \exp(\frac{2\pi u}{N})$$

$$= -4 + \exp(-2\pi j \frac{v}{N}) + \exp(-2\pi i \frac{v}{N}) + \exp(\frac{2\pi u}{N})$$

$$X_{2}(n,y) = \begin{pmatrix} -1 & -1 & -1 \\ -1 & 8 & 1 \\ -1 & -1 & -1 \end{pmatrix}$$

N.N point DF7 fox k2:

$$f(u_0v) = 8 = \exp\left(-\frac{2\pi j \cdot u}{N}\right) - \exp\left(+\frac{2\pi i \cdot u}{N}\right)$$

$$- \exp\left(-\frac{2\pi i \cdot v}{N}\right) - \exp\left(+\frac{2\pi i \cdot v}{N}\right)$$