$$\hat{L}(\omega_x,\omega_y) = \frac{\sum\limits_{dx,dy} i^{dx+dy} w(dx,dy) \omega_x^{dx} \omega_y^{dy} \bar{f} \hat{I} + i \gamma (\omega_x \Psi_x + \omega_y \Psi_y)}{\sum\limits_{dx,dy} i^{dx+dy} w(dx,dy) \omega_x^{dx} \omega_y^{dy} \bar{f} \hat{f} - \gamma (\omega_x^2 + \omega_y^2)}$$