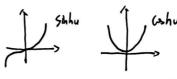
20 Green function, modified bessel function 已知时空域解,作FTT未数空域解,

$$C^{\dagger}\phi(8,t) = \frac{1}{2} \frac{H(t \pm \frac{R}{C})}{\sqrt{t^2 - \frac{R^2}{C^2}}}, R^2 = 51^2 + 32^2$$

$$F(w) = \int_{-\infty}^{+\infty} e^{-iwt} \frac{H(t-a)}{\sqrt{t^2-a^2}} dt = \int_{a}^{\infty} \frac{e^{-iwt}}{\sqrt{t^2-a^2}} dt$$

F(w) =
$$\int_0^\infty \frac{e^{-iwa\cos hu}}{a + \sin hu} a + \int_0^\infty e^{-iwa\cos hu} du$$



Modified Bessel function (Wikipedia):

$$K_{\alpha}(x) = \int_{0}^{\infty} e^{-x} \cosh t$$
 cosh(xt) dt order

$$|\mathcal{F}(\omega)| = K_o(i\omega a) = K_o(\frac{i\omega R}{c})$$