NAME OF THE PARTY OF THE PARTY

• Want the fuguency shifted of a Fourier transform $2 \pm b (\Im f)(s) = \Im f (s \mp b) = \int_{-\infty}^{\infty} f(t) e^{-2\pi i (s \mp b)t} dt$ $= \int_{-\infty}^{\infty} f(t) e^{-2\pi i st} e^{\pm 2\pi i bt} dt$ $= \int_{-\infty}^{\infty} \left(f(t) e^{\pm 2\pi i bt} \right) e^{-2\pi i st} dt$ $= \Im \left(f(t) e^{\pm 2\pi i bt} \right)$