"Take the IFT of a reversed signal

 $\mathcal{F}^{-1}f^{-1}(s) = \int_{-\infty}^{\infty} f^{-1}(t)e^{2\pi i \omega t} ds$

 $= \int_{-\infty}^{\infty} f(-t) e^{2\pi i st} ds$

9=-t dg=-dt

 $= \int_{-\infty}^{-\infty} f(g) e^{2\pi i s (-g)} (-dg)$

= fig) e = 2 Trisq dg

rename dumny

= forfitse-zirist dt

= Ff (s)

or removing the explicit statement of the independent

F-1f- = Ff

· Because this holds for f(t) and tempered distributions can be obtained from f by

If and limit If it holds for distributions

7-17=77 V

[see Osyood p82-85 & 179-182]