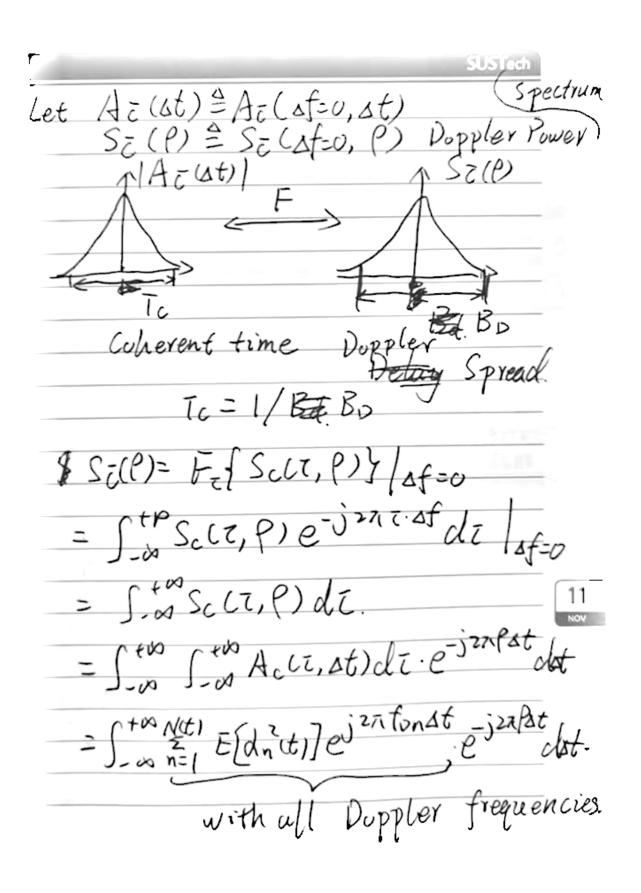


Fourier transform of Ac(of, at). W. Y. t. at Son Az (of, at) e-jzriPat dat - of Sin Ac(I, st)e = jerrat didat " Son Acci, At) e-jzzelst date scattering function.



AWGIN Channel.
$X \rightarrow AWGM \rightarrow Y$ Noise (X,Y) are arrelated. $X \rightarrow AWGM \rightarrow Y$ Noise (X,Y) are arrelated. $X \rightarrow AWGM \rightarrow Y$ $X \rightarrow $
N(O, NoB)
Information from X to Y without error. $1(X;Y) \stackrel{\leq}{=} \sum_{x,y} p(x,y) \cdot (eg \frac{p(x,y)}{p(x)p(y)})$
$= H(Y) - H(Y X)$ $H(Y) \stackrel{\triangle}{=} - \overline{z} p(y) (\omega g p(y))$ $H(Y X) \stackrel{\triangle}{=} - \overline{z} p(x,y) (\omega g p(y X))$ $= \frac{11}{n \cdot y} p(x,y) (\omega g p(y X))$
Capaciey: maximum amount of information from X to Y was without error.
C = max I(X; Y) = \frac{1}{2} log (1+),

