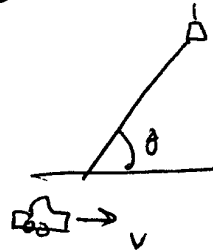


## Fact Sheet Chapter 4

$$\text{Doppler } \Delta f = \frac{v}{\lambda} \cos \theta$$



Raleigh - NLOS

$$p(r) = \begin{cases} \frac{r}{\sigma^2} \exp\left(-\frac{r^2}{2\sigma^2}\right) & 0 \leq r < \infty \\ 0 & r < 0 \end{cases} \quad \text{Fig 4.1}$$

Ricean - LOS

$$p(r) = \frac{r}{\sigma^2} \exp\left(-\frac{r^2 + A^2}{2\sigma^2}\right) I_0\left(\frac{Ar}{\sigma^2}\right) \quad \text{Fig 4.1}$$

$K = \frac{A^2}{2\sigma^2}$  peak amplitude of LOS signal