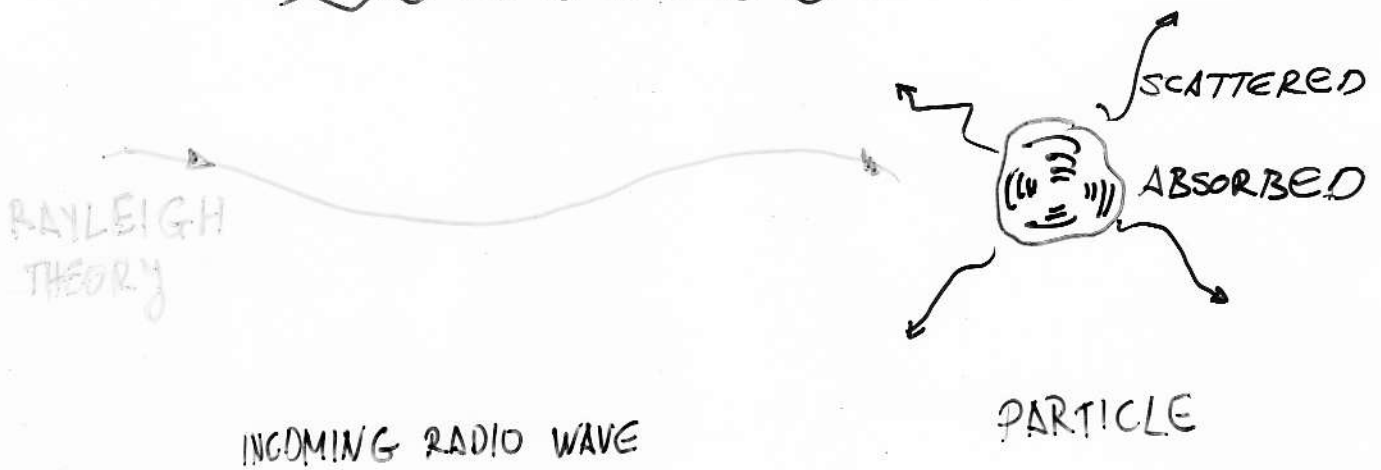


# SCATTERING



BACKWARD SCATTERING =  $f$  ( DIELECTRIC SCATTERER'S PROPERTY,  $\lambda_{\text{RADIO WAVE}}$ ,  $\tau_{\text{SCATTERER}}$  )

A small diagram above the equation shows a central point with several wavy lines radiating outwards in different directions, representing scattered waves.

THE MIE THEORY RELATES BACKSCATTERING CROSS-SECTION AS THE EQUIVALENT AREA OF AN ISOTROPIC SCATTERER RETURN TO A RECEIVER THE POWER AMOUNT ACTUALLY RECEIVED.

THE COMPLEX INDEX OF REFRACTION,  $m$ :

$$m = n - ik$$

REFRACTIVE INDEX      ABSORPTION COEF.