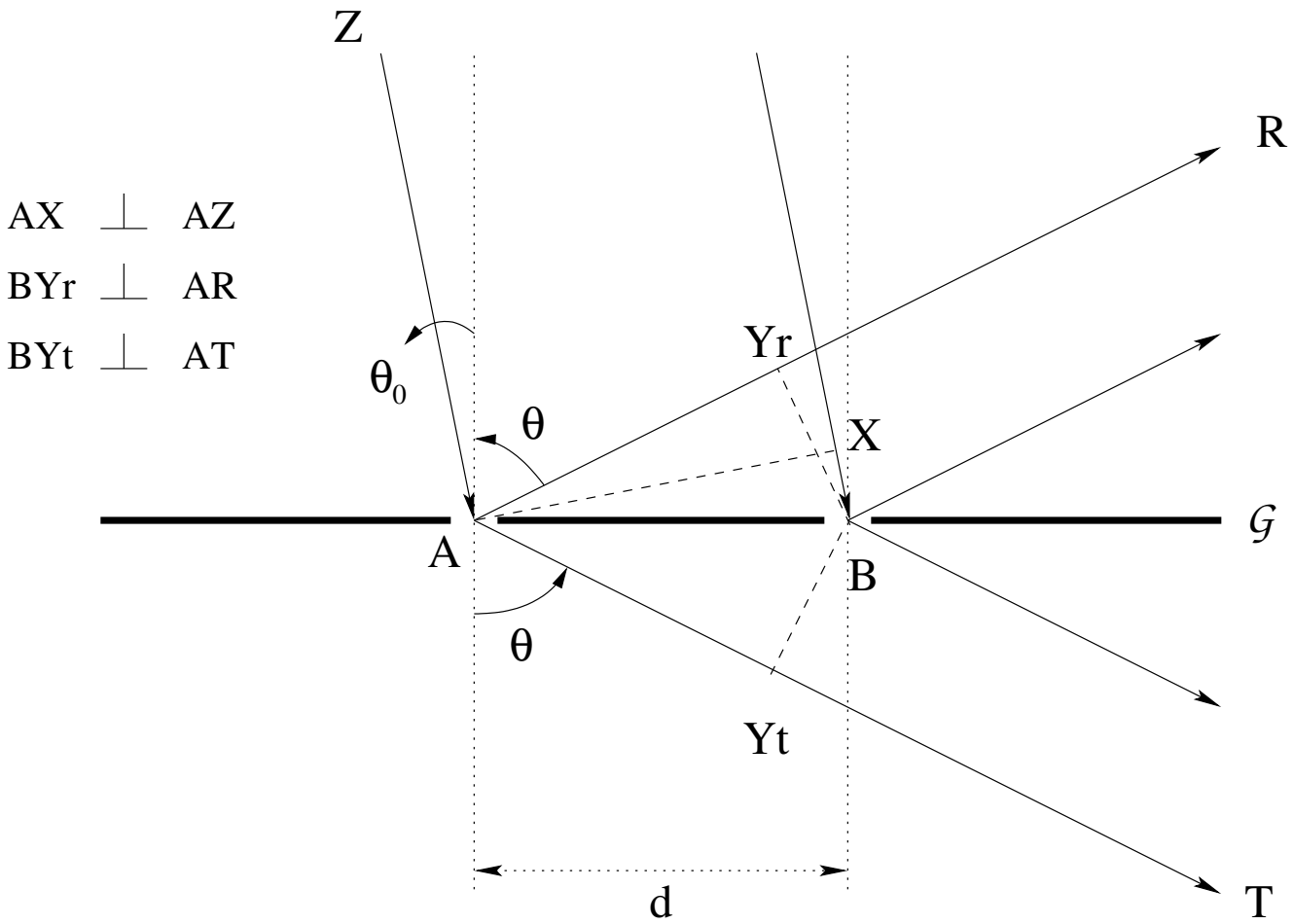
DISPERSION



$XB = d \sin\theta_0$

$AYr = AYt = d \sin\theta$

Path difference = $(AYr - XB) = (AYt - XB) = d(\sin\theta - \sin\theta_0) = m\lambda$