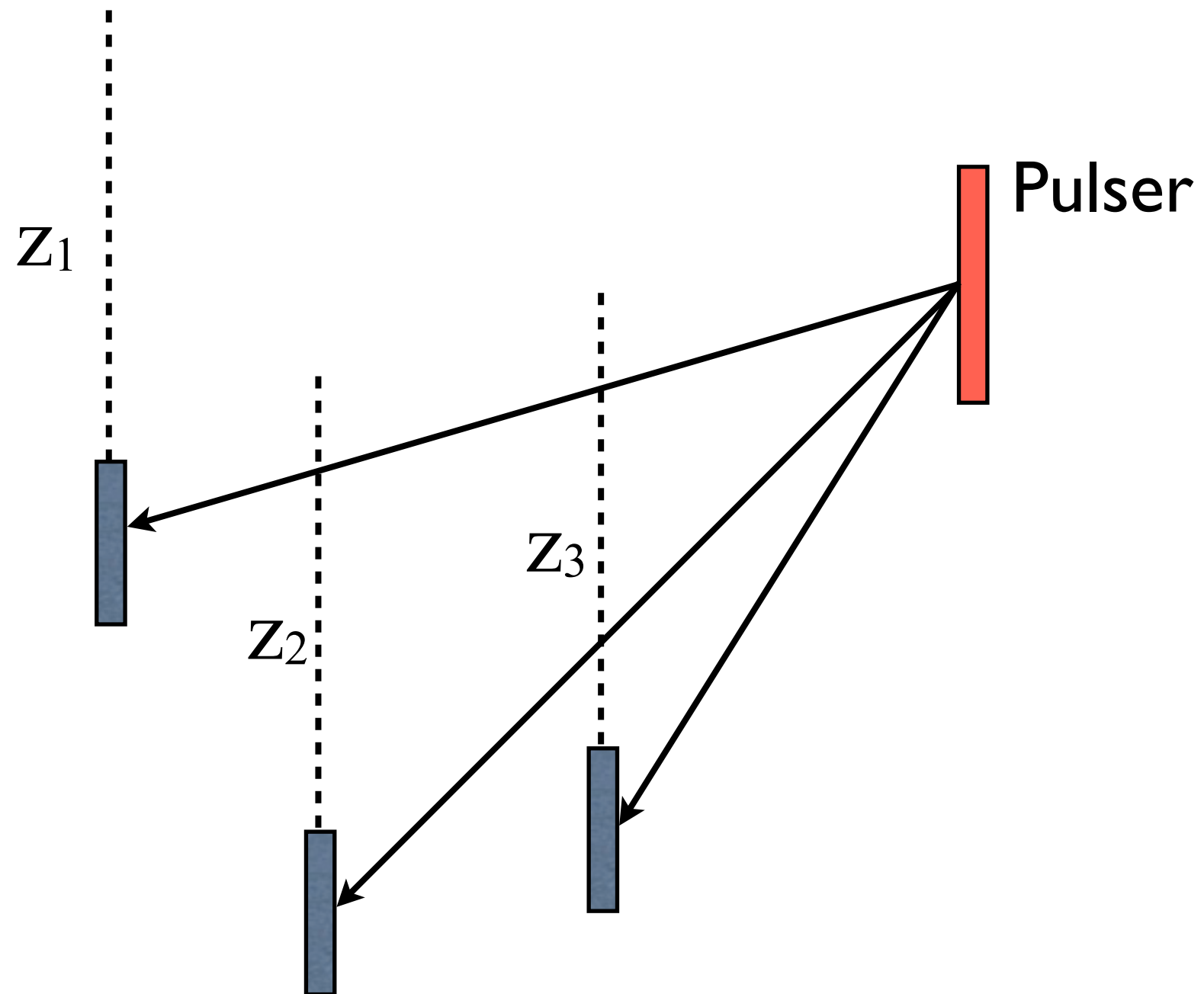


Why you need two pulsers
at different depths ...



$$\delta_{12} = \frac{\text{sqrt}(\Delta x_{1p}^2 + \Delta y_{1p}^2 + \Delta z_{1p}^2) - \text{sqrt}(\Delta x_{2p}^2 + \Delta y_{2p}^2 + \Delta z_{2p}^2)}{(c/n)} + (\delta_1 - \delta_2)$$

$$\delta_{13} = \frac{\text{sqrt}(\Delta x_{1p}^2 + \Delta y_{1p}^2 + \Delta z_{1p}^2) - \text{sqrt}(\Delta x_{3p}^2 + \Delta y_{3p}^2 + \Delta z_{3p}^2)}{(c/n)} + (\delta_1 - \delta_3)$$

... or ... grouped differently as ...

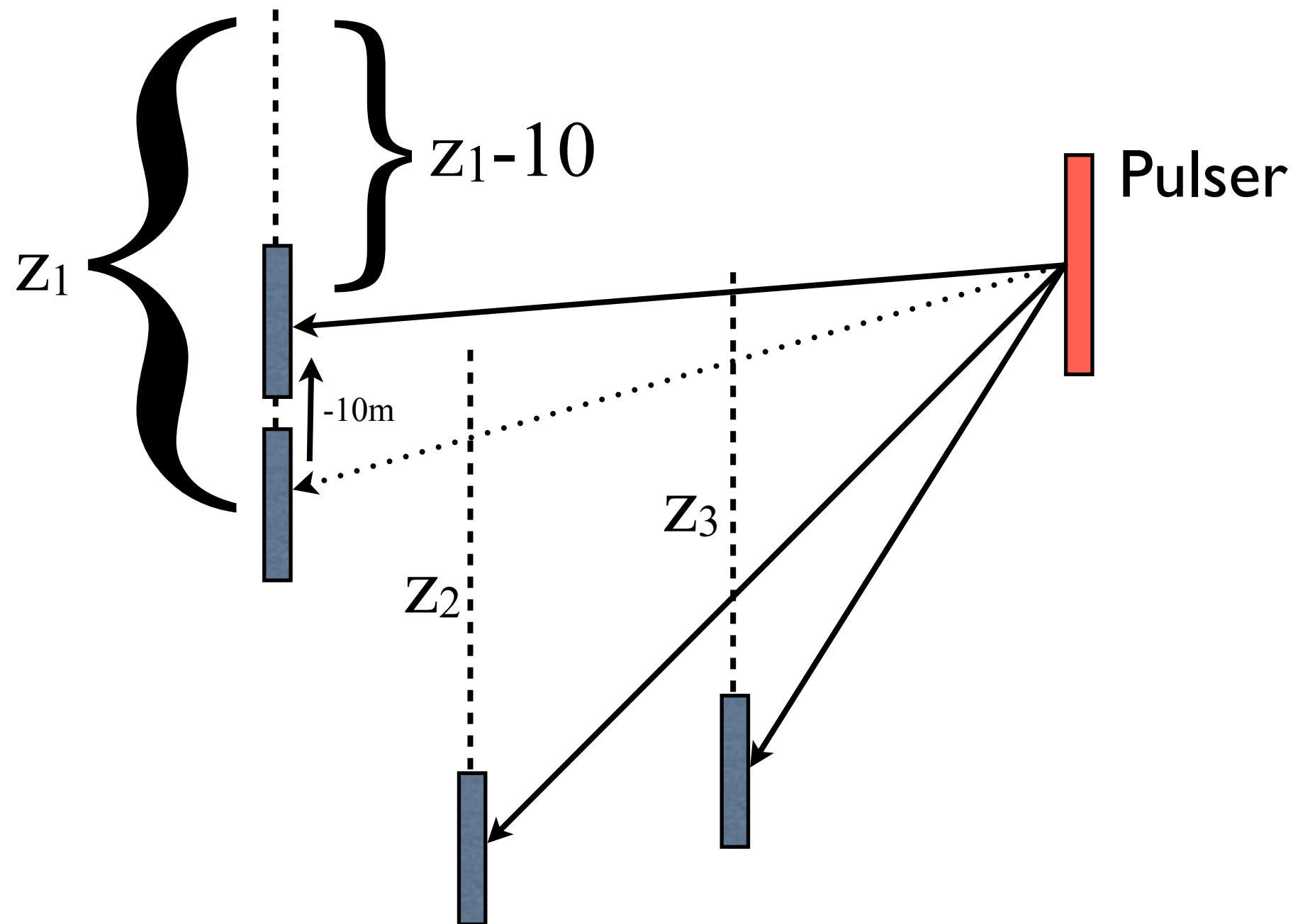
$$\delta_{12} = \frac{\text{sqrt}(\Delta x_{1p}^2 + \Delta y_{1p}^2 + \Delta z_{1p}^2)}{(c/n)} + \delta_1 - \frac{\text{sqrt}(\Delta x_{2p}^2 + \Delta y_{2p}^2 + \Delta z_{2p}^2)}{(c/n)} + \delta_2$$

... and likewise for δ_{13}

$$\delta_{12} = \frac{\text{sqrt}(\Delta x_{1p}^2 + \Delta y_{1p}^2 + \Delta z_{1p}^2)}{(c/n)} + \delta_1 - \frac{\text{sqrt}(\Delta x_{2p}^2 + \Delta y_{2p}^2 + \Delta z_{2p}^2)}{(c/n)} + \delta_2$$

$$\delta_{13} = \frac{\text{sqrt}(\Delta x_{1p}^2 + \Delta y_{1p}^2 + \Delta z_{1p}^2)}{(c/n)} + \delta_1 - \frac{\text{sqrt}(\Delta x_{3p}^2 + \Delta y_{3p}^2 + \Delta z_{3p}^2)}{(c/n)} + \delta_3$$

... now shift an antenna up by 10m ...



$$\delta_{12} = \frac{\text{sqrt}(\Delta x_{1p}^2 + \Delta y_{1p}^2 + [\Delta z_{1p} - 10.0]^2)}{(c/n)} + \delta_1 - \frac{\text{sqrt}(\Delta x_{2p}^2 + \Delta y_{2p}^2 + \Delta z_{2p}^2)}{(c/n)} + \delta_2$$

$$\delta_{13} = \frac{\text{sqrt}(\Delta x_{1p}^2 + \Delta y_{1p}^2 + [\Delta z_{1p} - 10.0]^2)}{(c/n)} + \delta_1 - \frac{\text{sqrt}(\Delta x_{3p}^2 + \Delta y_{3p}^2 + \Delta z_{3p}^2)}{(c/n)} + \delta_3$$

- OR -

$$\delta_{12} = \frac{\text{sqrt}(\Delta x_{1p}^2 + \Delta y_{1p}^2 + [\Delta z_{1p}]^2)}{(c/n)} + \left[\delta_1 - \frac{10.0}{(c/n)} \right] - \frac{\text{sqrt}(\Delta x_{2p}^2 + \Delta y_{2p}^2 + \Delta z_{2p}^2)}{(c/n)} + \delta_2$$

$$\delta_{13} = \frac{\text{sqrt}(\Delta x_{1p}^2 + \Delta y_{1p}^2 + [\Delta z_{1p}]^2)}{(c/n)} + \left[\delta_1 - \frac{10.0}{(c/n)} \right] - \frac{\text{sqrt}(\Delta x_{3p}^2 + \Delta y_{3p}^2 + \Delta z_{3p}^2)}{(c/n)} + \delta_3$$

so cannot separate Δz from δt ever ...