

## Quiz 2

$$D_m = -55 \text{ ps/(nm.km)}$$

$$\lambda = 830 - 790 = 40 \text{ nm}$$

$$L = 100 \text{ km.}$$

from

$$\Delta t_m = D_m(\lambda) L \Delta \lambda$$

$$= \frac{55 \text{ ps}}{\text{nm.km}} \cdot 100 \text{ km} \cdot 40 \text{ nm}$$

$$\Delta t_m = 220000 \text{ ps}$$

$$= \frac{220000 \times 10^{-12}}{10^{-6}} \mu\text{s}$$

$$\Delta t_m = 0.22 \mu\text{s} \quad \text{or} \quad 220 \text{ ns}$$

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