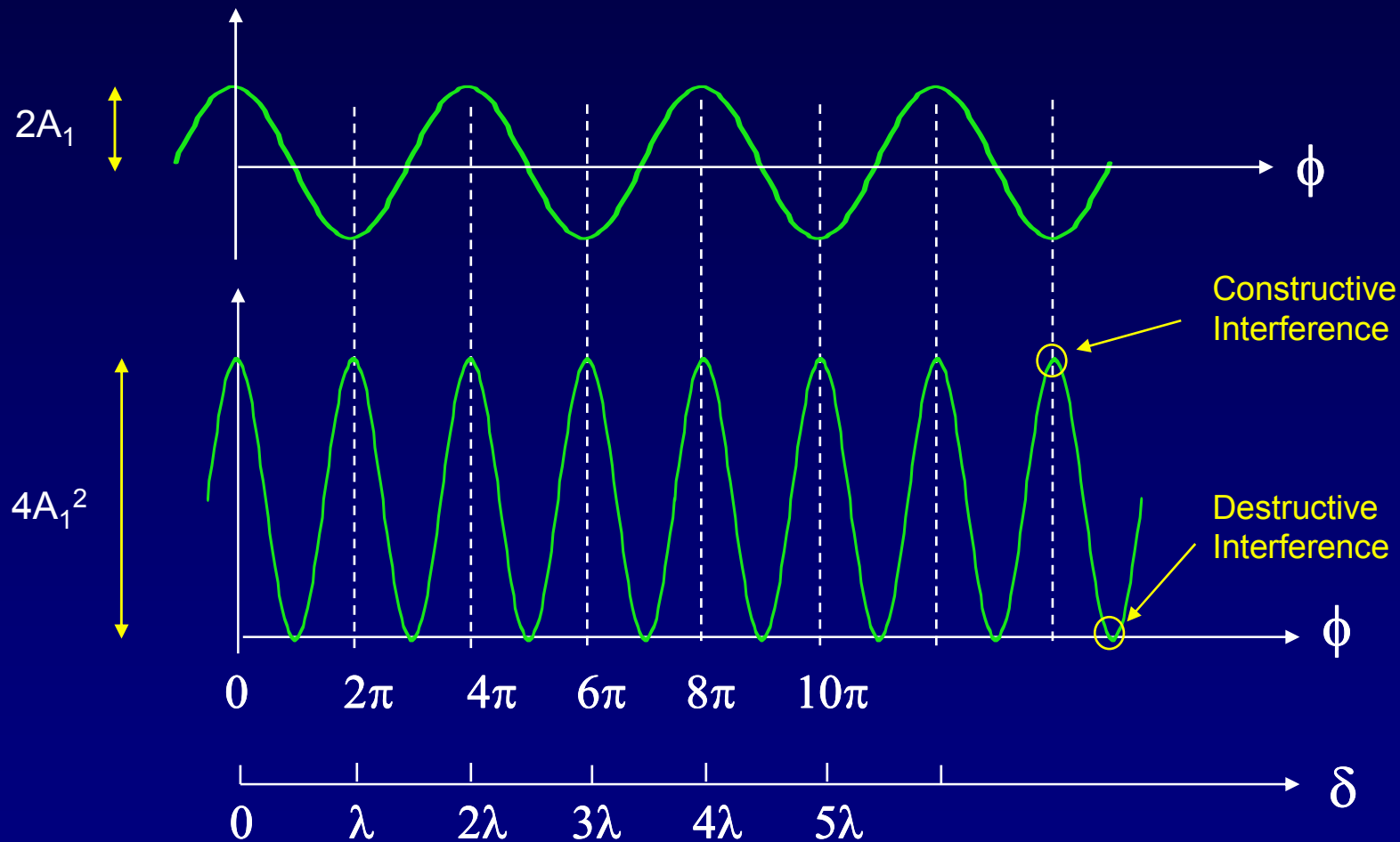


Amplitude vs. Intensity for 2 Interfering Waves

Plot $2A_1\cos(\phi/2)$ and $4A_1^2\cos^2(\phi/2)$ as a function of ϕ .



Q: What is the spatial average intensity?

A: $I_{av} = 4I_1 \cdot 0.5 = 2I_1$ Does this make sense?