



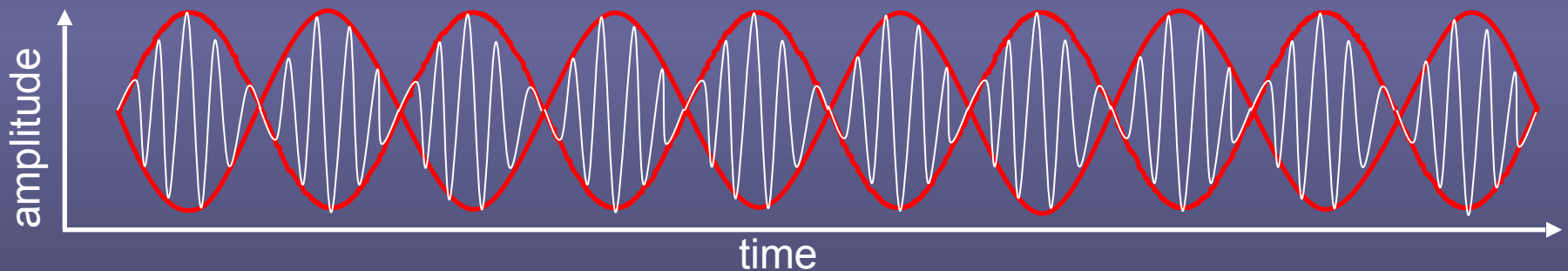






# Interference

- The rate of a **beat** is the difference of two frequencies – it results from the interference of two slightly different frequencies
- We hear this as a periodic variation in volume



- If you know one frequency and you know the beat frequency, then you can determine the second frequency
- By interfering frequencies of visible light, we get a beat frequency that is in the radio range – this is measurable

How do we use interference when dealing with optical frequencies?