

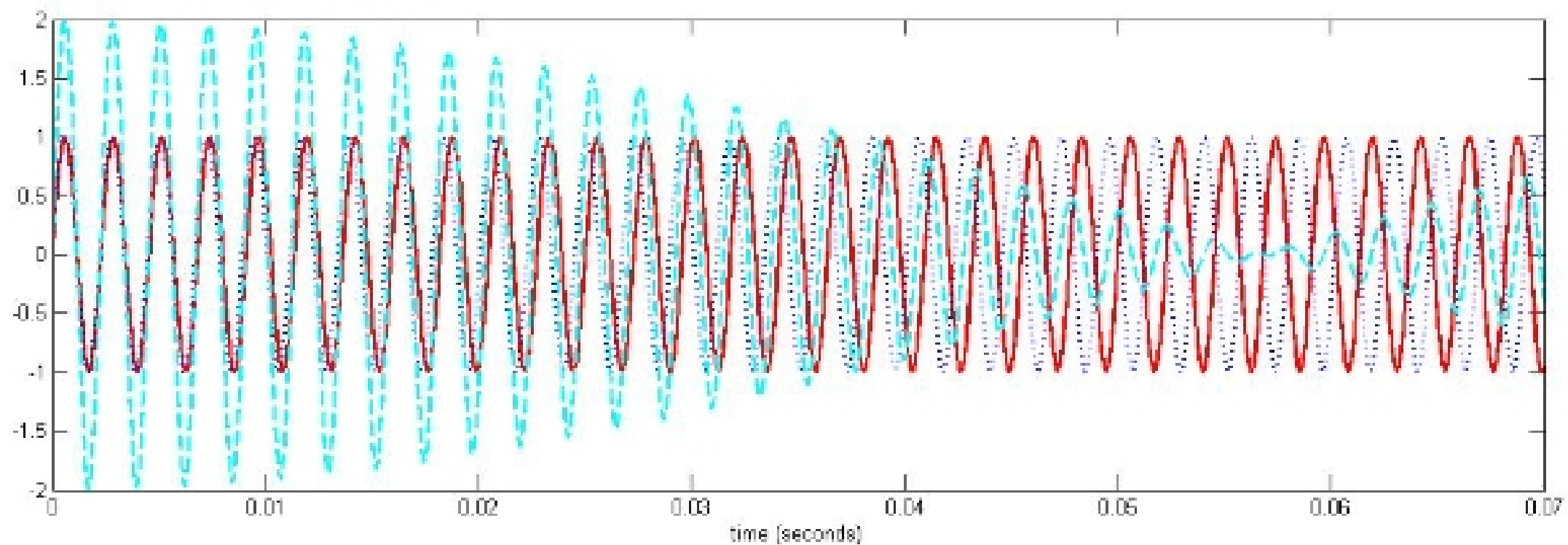


Beats and Tuning

Pitch recognition

Physics of Music PHY103

Sum of two sine waves that differ only slightly in frequency



Frequency f and $1.02f$ and their sum

Patterns emerging from Polyrhythms

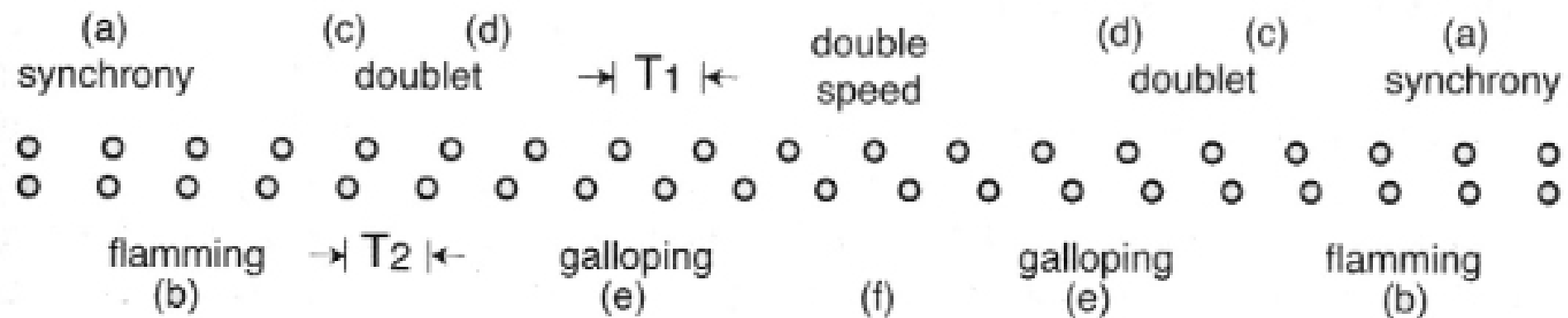


Image from W. Sethares's book *Rhythm and Transform*



19 vs 20 beats in 8 seconds