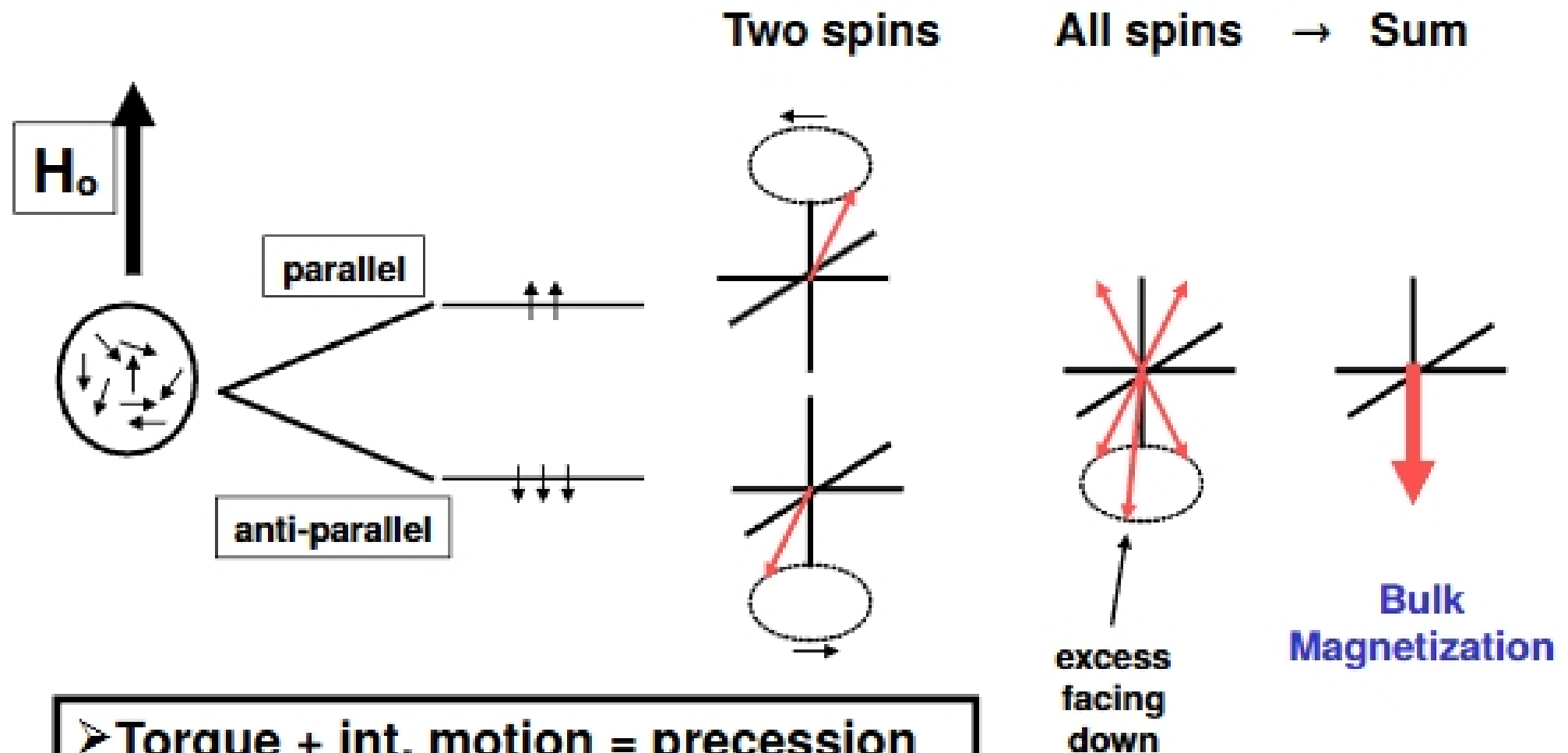


The Classical Treatment: Nuclear Spin Angular Momentum

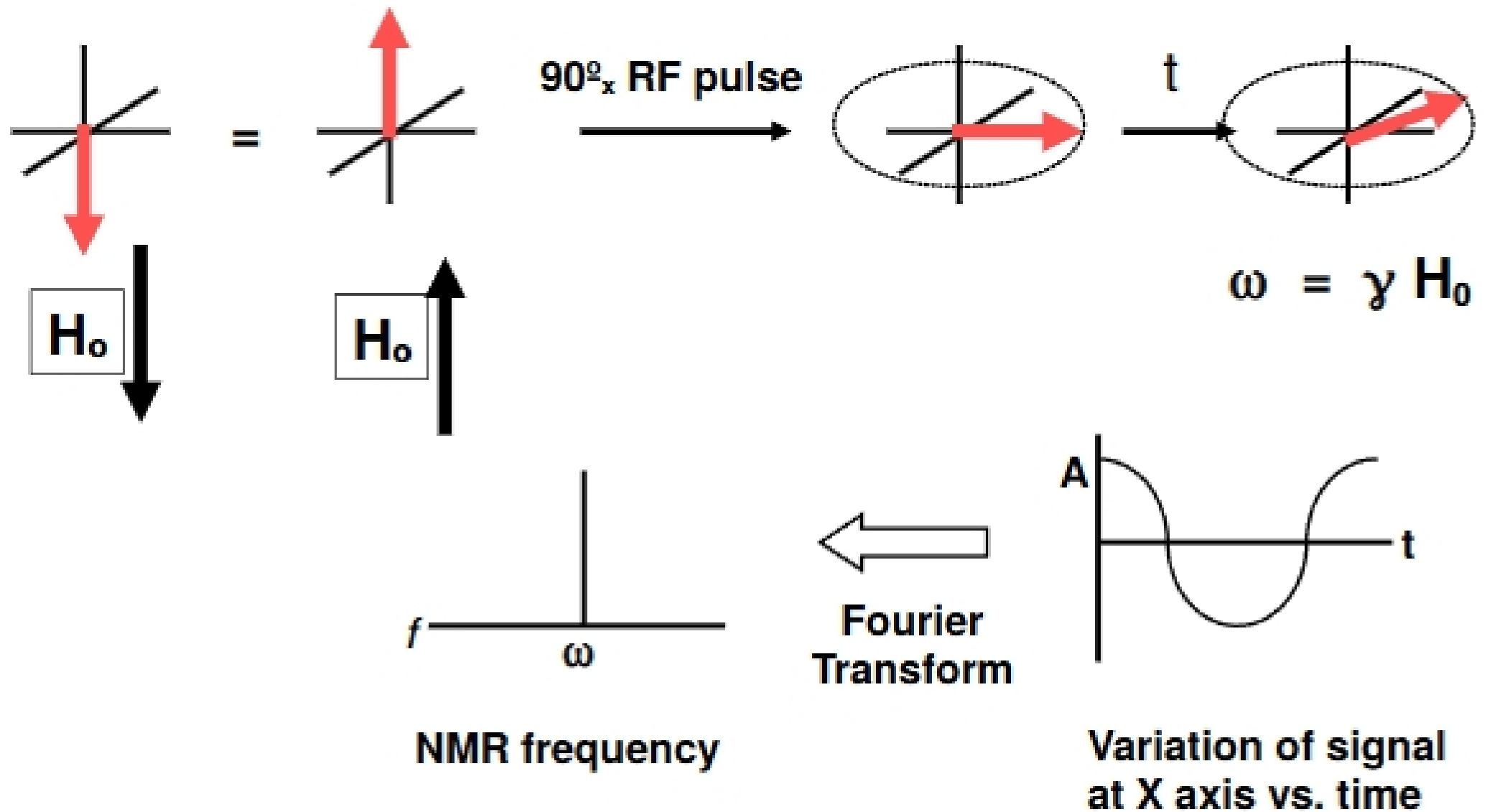


- Torque + int. motion = precession
- Precession around Z axis
- Larmor frequency (ω):

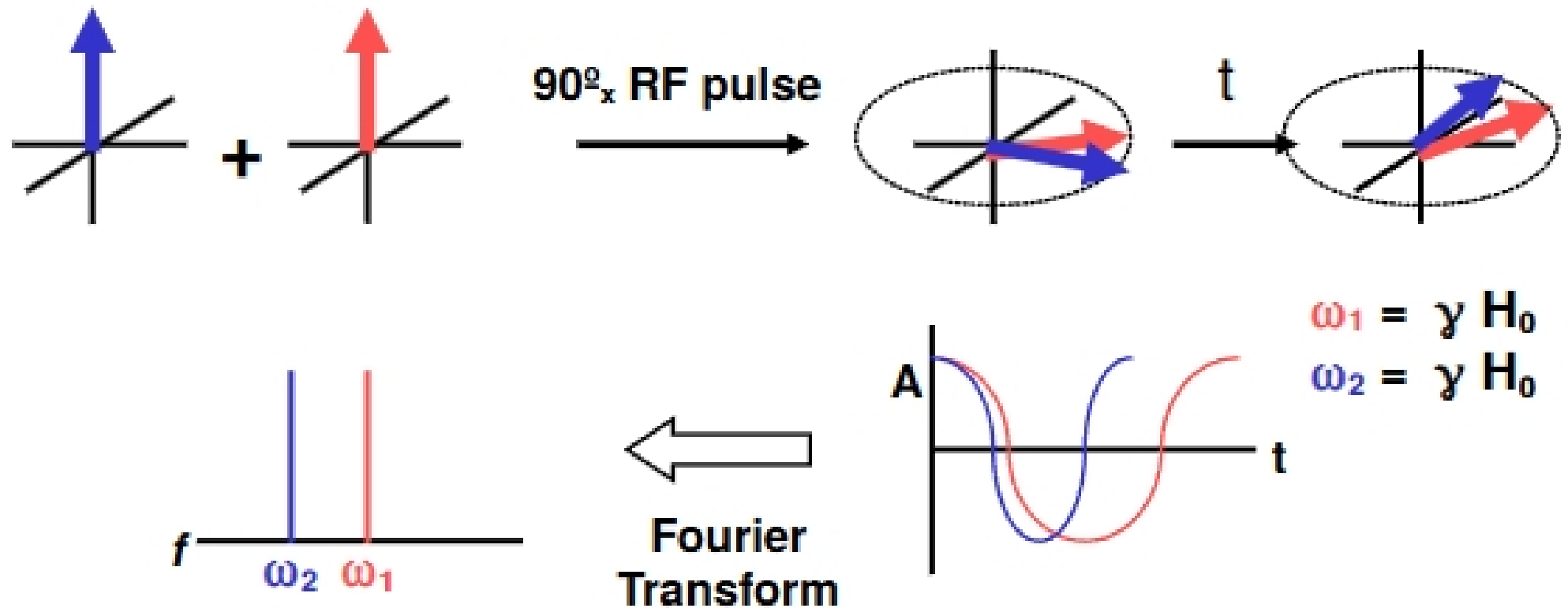
$$\Delta E = \hbar \gamma H_0 \rightarrow \Delta E = h\nu \rightarrow \nu = \gamma H_0$$

$$= \omega$$

Pulse Fourier Transform NMR



The Power of Fourier Transform



NMR frequency domain

➤ Spectrum of frequencies

NMR time domain

➤ Variation in amplitude vs time