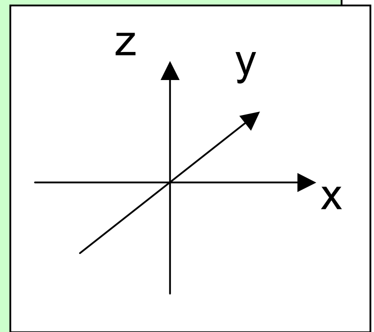

$$I_z \xrightarrow{\beta I_x} I_z\cos\beta - I_y\sin\beta$$

$$I_z \xrightarrow{\beta I_y} I_z\cos\beta + I_x\sin\beta$$

$$I_x \xrightarrow{\beta I_x} I_x$$

$$I_x \xrightarrow{\beta I_y} I_x\cos\beta - I_z\sin\beta$$

$$I_y \xrightarrow{\beta I_x} I_y\cos\beta + I_z\sin\beta$$

$$I_y \xrightarrow{\beta I_y} I_y$$

$$I_z \xrightarrow{90^\circ I_x} -I_y \qquad I_z \xrightarrow{90^\circ I_y} I_x$$

$$I_x \xrightarrow{90^\circ I_y} -I_z \qquad I_y \xrightarrow{90^\circ I_x} I_z$$

$$I_x \xrightarrow{I_z \Omega\tau} I_x\cos\Omega\tau + I_y\sin\Omega\tau = I_x\cos2\pi\delta\tau + I_y\sin2\pi\delta\tau$$

$$I_y \xrightarrow{I_z \Omega\tau} I_y\cos\Omega\tau - I_x\sin\Omega\tau = I_x\cos2\pi\delta\tau + I_y\sin2\pi\delta\tau$$

$$I_z \xrightarrow{I_z \Omega\tau} I_z$$

$$I_{1x} \xrightarrow{I_{1z} I_{2z} \pi J_{12}\tau} I_{1x}\cos\pi J_{12}\tau + 2I_{1y}I_{2z}\sin\pi J_{12}\tau$$

$$I_{1y} \xrightarrow{I_{1z} I_{2z} \pi J_{12}\tau} I_{1y}\cos\pi J_{12}\tau - 2I_{1x}I_{2z}\sin\pi J_{12}\tau$$

$$2I_{1x}I_{2z} \xrightarrow{I_{1z} I_{2z} \pi J_{12}\tau} 2I_{1x}I_{2z}\cos\pi J_{12}\tau + I_{1y}\sin\pi J_{12}\tau$$

$$2I_{1y}I_{2z} \xrightarrow{I_{1z} I_{2z} \pi J_{12}\tau} 2I_{1y}I_{2z}\cos\pi J_{12}\tau - I_{1x}\sin\pi J_{12}\tau$$

$$\cos^2\alpha + \sin^2\alpha = 1$$

$$\sin 2\alpha = 2 \sin\alpha \cos\alpha$$

$$\cos 2\alpha = \cos^2\alpha - \sin^2\alpha$$

$$\exp \pm i\alpha = \cos\alpha \pm i \sin a$$

$$\sin(\alpha + \beta) = \sin\alpha \cos\beta + \cos\alpha \sin\beta$$

$$\sin(\alpha - \beta) = \sin\alpha \cos\beta - \cos\alpha \sin\beta$$

$$\cos(\alpha + \beta) = \cos\alpha \cos\beta - \sin\alpha \sin\beta$$

$$\cos(\alpha - \beta) = \cos\alpha \cos\beta + \sin\alpha \sin\beta$$

$$\sin\alpha \cos\beta = \tfrac{1}{2} [\sin(\alpha + \beta) + \sin(\alpha - \beta)]$$

$$\cos\alpha \sin\beta = \tfrac{1}{2} [\sin(\alpha + \beta) - \sin(\alpha - \beta)]$$

$$\cos\alpha \cos\beta = \tfrac{1}{2} [\cos(\alpha + \beta) + \cos(\alpha - \beta)]$$

$$\sin\alpha \sin\beta = \tfrac{1}{2} [\cos(\alpha - \beta) - \cos(\alpha + \beta)]$$