

$$e^{2iv} = 1$$

$$\cos 2v + i \sin 2v = 1$$

$$\cos 2v = 1 \quad \wedge \quad \sin 2v = 0$$

$$2v = t$$

$$\cos t = 1 \quad \wedge \quad \sin t = 0$$

$$t = 2k\pi$$

$$2v = 2k\pi$$

$$v = k\pi$$

$$z = k\pi$$