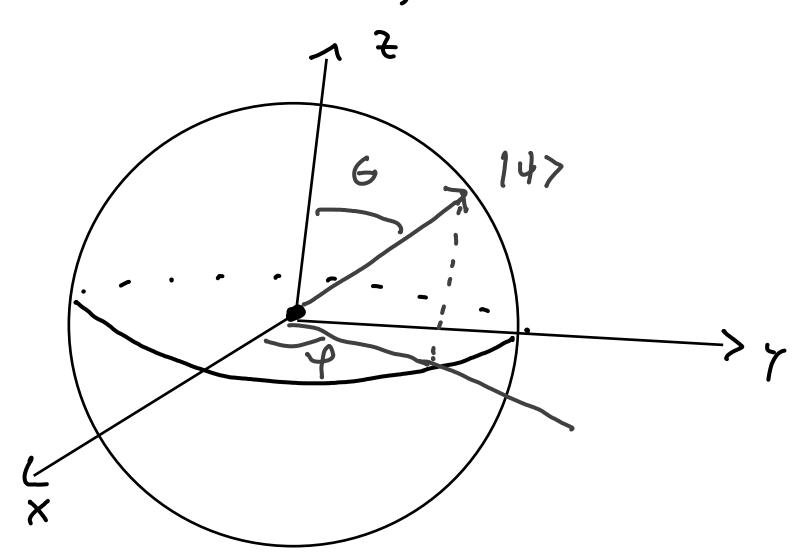
## 2. Principes quantiques Calcul quantique

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Sphère de Bloch: 
$$|4\rangle = \cos(\frac{6}{2}) \log_{+} e^{i4} \sin(\frac{6}{2}) |1\rangle$$



ex: 
$$\alpha 10 > + \beta 11 > - \rightarrow \alpha 11 > + \beta 10 >$$
 existe si  $\exists U$ 

$$U(dlo) + \beta(l) = \alpha l + \beta lo = 0$$

$$U(lo) = l)$$

$$= 0$$

$$U(lo) = l)$$

$$U(lo) = l$$

$$U(lo) = l$$

$$U(lo) = l$$

ex: Bell 
$$10 \rightarrow H$$

$$|00\rangle + |141\rangle$$

$$|00\rangle + |00\rangle$$

$$|00\rangle$$