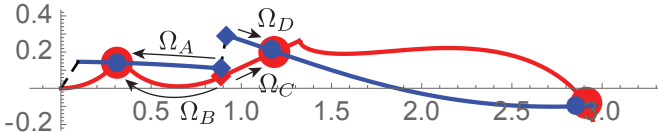


Rotated Bloch sphere latitude θ

$$\cos((\theta + \pi/2)/2) = |\langle \psi | + \rangle|$$



Rotated Bloch sphere longitude ϕ

$$\phi = \arg(\langle \phi | - \rangle) - \arg(\langle \phi | + \rangle)$$