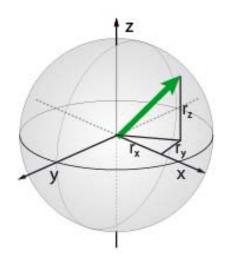
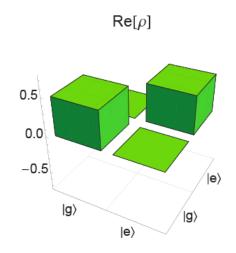
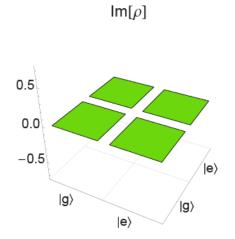
3 measurements for 3 coefficients r_x , r_y , r_z of

$$\rho = \frac{1}{2}(id + r_x\sigma_x + r_y\sigma_z + r_z\sigma_z)$$





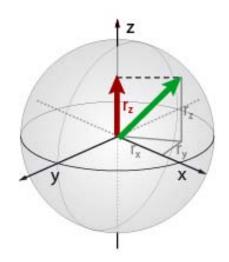


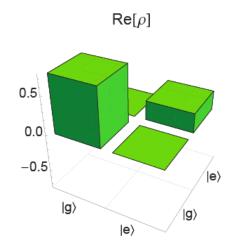


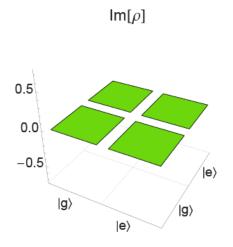
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•Measurement along z-axis: $r_z = \langle \sigma_z \rangle = {
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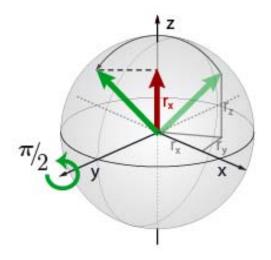


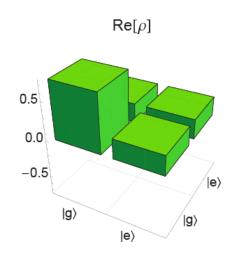


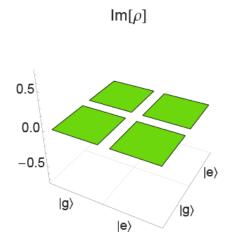
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- •Measurement along z-axis: $r_z = \langle \sigma_z \rangle = \text{Tr}[\rho \sigma_z]$
- •Rotation + measurement: $r_x = \langle \sigma_x \rangle = \mathrm{Tr}[\left(\frac{\pi}{2}\right)_y \rho\left(\frac{\pi}{2}\right)_{-y} \sigma_z]$









3 measurements for 3 coefficients r_x , r_y , r_z of

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- •Rotation + measurement: $r_y = \langle \sigma_y \rangle = \text{Tr}[\left(\frac{\pi}{2}\right)_x \rho\left(\frac{\pi}{2}\right)_{-x} \sigma_z]$

