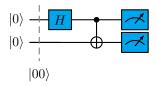
Squantikz squimports

Saverio Monaco September 24, 2025

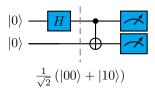
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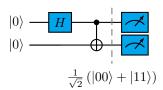
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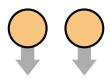
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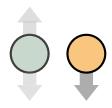
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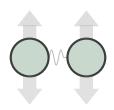
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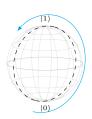
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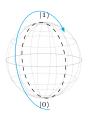
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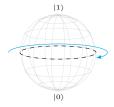
blochRX



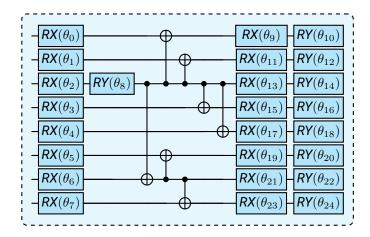
blochRY



blochRZ



clic8



gateCNOT

$$\equiv \begin{pmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{pmatrix}$$

gateH

$$-\boxed{H} = \frac{1}{\sqrt{2}} \begin{pmatrix} +1 & -1 \\ -1 & +1 \end{pmatrix}$$

gateRX

$$-\frac{RX(\theta)}{-i\sin(\frac{\theta}{2})} = \begin{pmatrix} \cos(\frac{\theta}{2}) & -i\sin(\frac{\theta}{2}) \\ -i\sin(\frac{\theta}{2}) & \cos(\frac{\theta}{2}) \end{pmatrix}$$

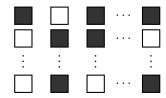
gateRY

$$-\frac{RY(\theta)}{-\sin(\frac{\theta}{2})} = \begin{pmatrix} +\cos(\frac{\theta}{2}) & -\sin(\frac{\theta}{2}) \\ -\sin(\frac{\theta}{2}) & +\cos(\frac{\theta}{2}) \end{pmatrix}$$

gateRz

$$-\frac{RZ(\theta)}{0} = \begin{pmatrix} e^{-i\theta/2} & 0\\ 0 & e^{+i\theta/2} \end{pmatrix}$$

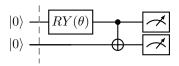
meas



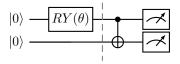
measbin

measbinalt

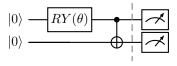
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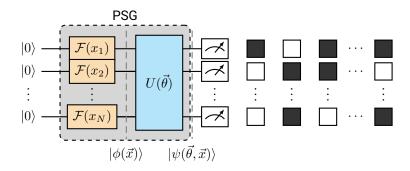
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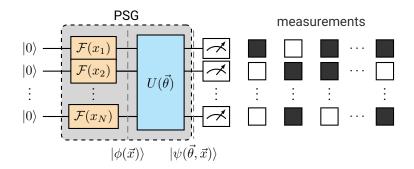
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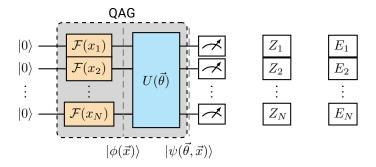
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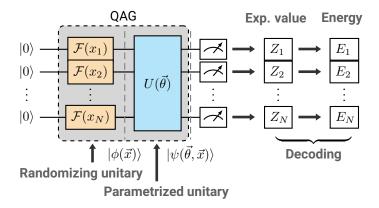
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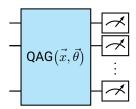
qag



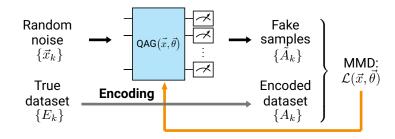
qag_model



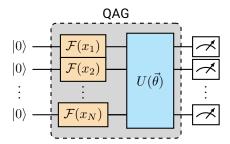
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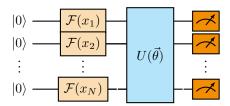
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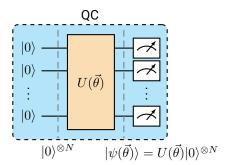
qagalt



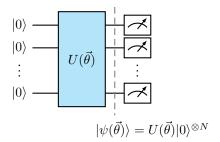
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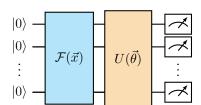
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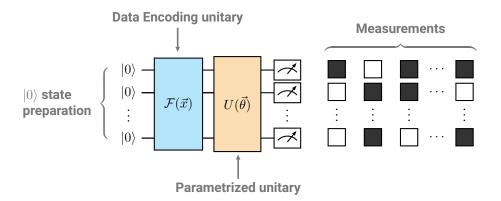
qcsimple



qml



 qml_model



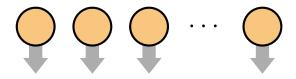
spin



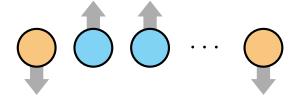
spindown



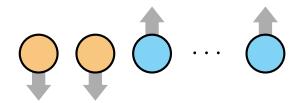
spindowns



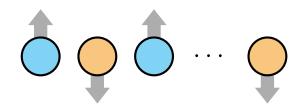
spinrand



spinrandalt



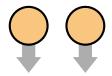
spinrandaltalt



spinup



twospinsdown



twospinsup

