

Squantikz squimports

Saverio Monaco

December 11, 2025

Contents

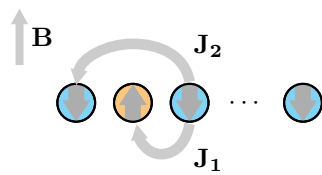
1	Commands	4
	annni	4
	bellcircuit1	4
	bellcircuit2	4
	bellcircuit3	4
	bellcircuitpp1	4
	bellcircuitpp2	5
	bellcircuitpp3	5
	bellspins1	5
	bellspins2	5
	bellspins3	6
	blochRX	6
	blochRY	6
	blochRZ	6
	brick4	6
	brickwallpp1	7
	brickwallpp2	7
	brickwallpp3	7
	brickwallpp4	7
	brickwallpp5	8
	brickwallpp6	8
	brickwallpp7	8
	clic8	8
	convhead	9
	encclic8	9
	fxiqpsimple	10
	gateCNOT	10
	gateH	10
	gateRX	10
	gateRY	11
	gateRZ	11
	iqpsimple	11

jamal_block	11
jamal_block2	12
linhead	12
meas	12
measbin	12
measbinalt	13
mps	13
mpstobrick	13
pbellcircuit1	13
pbellcircuit2	14
pbellcircuit3	14
pbrickwallpp1	14
pbrickwallpp2	14
pbrickwallpp3	15
pbrickwallpp4	15
pbrickwallpp5	15
pbrickwallpp6	15
pbrickwallpp7	15
psg	16
psg_model	16
psg_modelE	16
psgbp	17
qag	17
qag_model	17
qag_model2	18
qag_small	18
qag_train	18
qagalt	19
qagbp	19
qc	19
qchyb	20
qchyb2	20
qcimg	21
qcsimple	21
qcultrasimple	21
qml	22
qml_model	22
shower_full	22
spin	23
spindown	23
spindowns	24
spinrand	24
spinrandalt	24
spinrandaltalt	24
spinup	25
twospinsdown	25

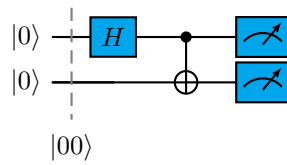
twospinsup	25
----------------------	----

1 Commands

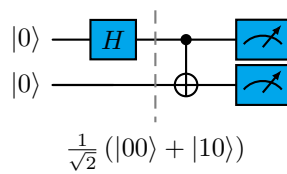
annni



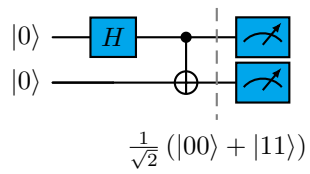
bellcircuit1



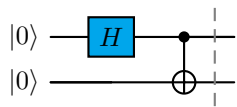
bellcircuit2



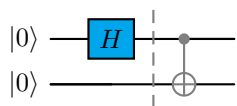
bellcircuit3



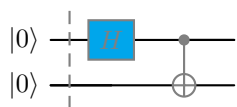
bellcircuitpp1



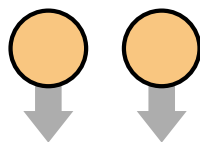
bellcircuitpp2



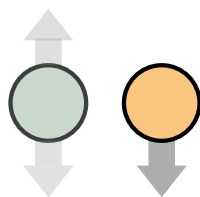
bellcircuitpp3



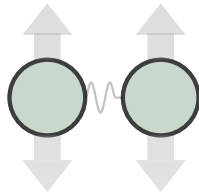
bellspins1



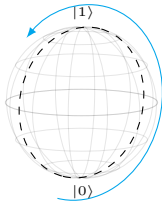
bellspins2



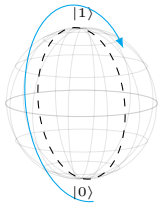
bellspins3



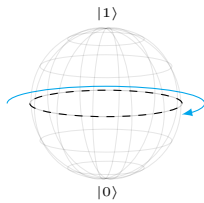
blochRX



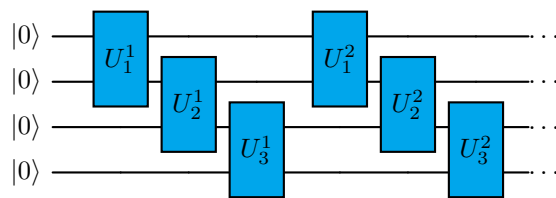
blochRY



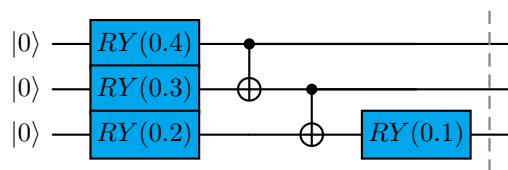
blochRZ



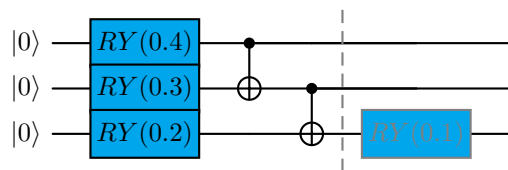
brick4



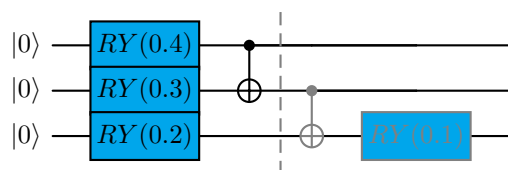
brickwallpp1



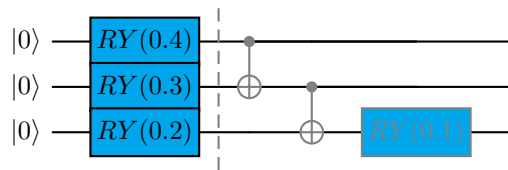
brickwallpp2



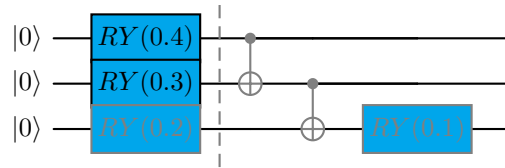
brickwallpp3



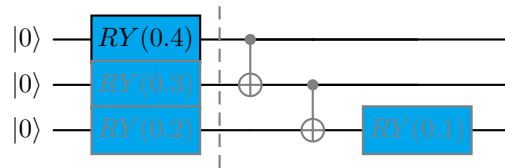
brickwallpp4



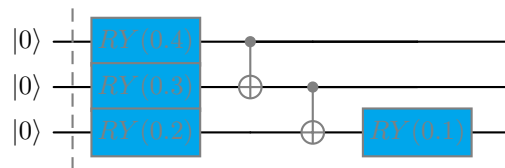
brickwallpp5



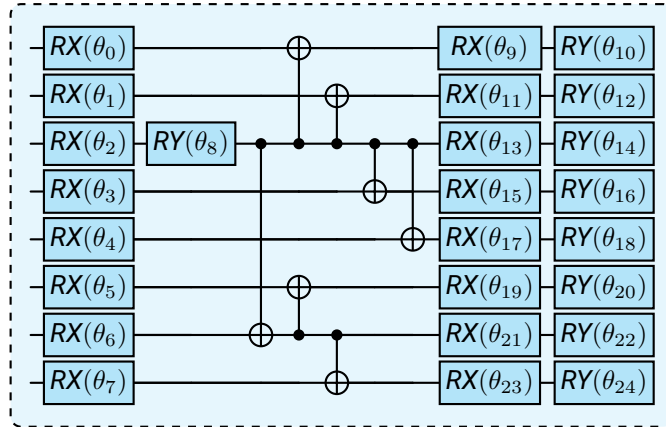
brickwallpp6



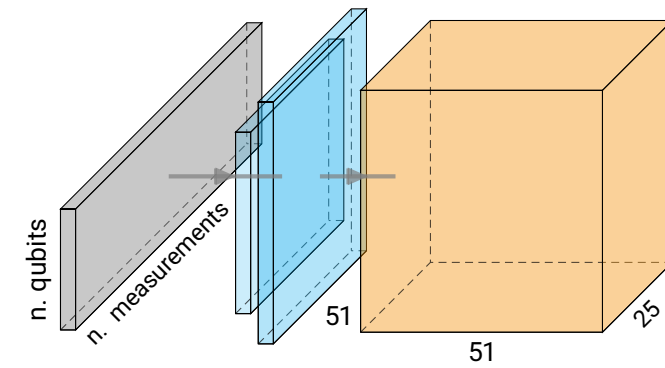
brickwallpp7



cllc8

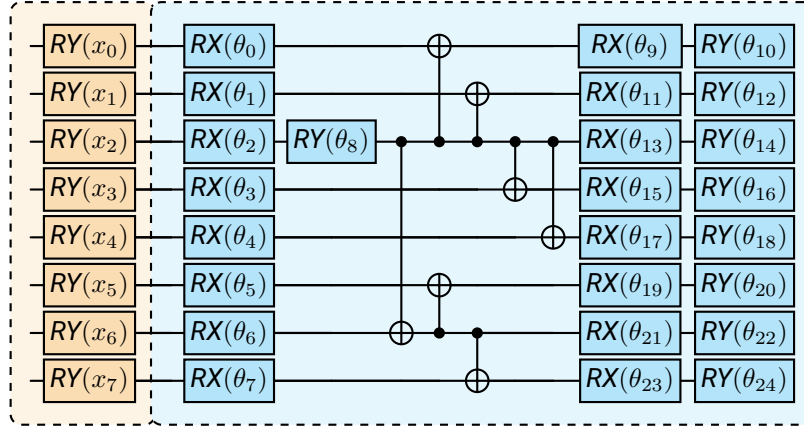


convhead

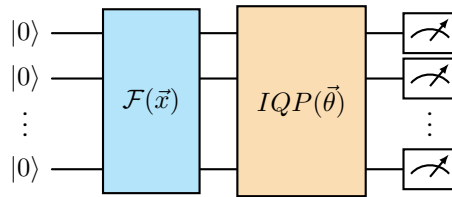


Convolution

enccllc8



fxiqpsimple



gateCNOT

$$\begin{array}{c} \bullet \\ | \\ \oplus \end{array} \equiv \begin{pmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{pmatrix}$$

gateH

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

gateRX

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

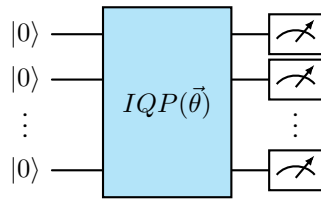
gateRY

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

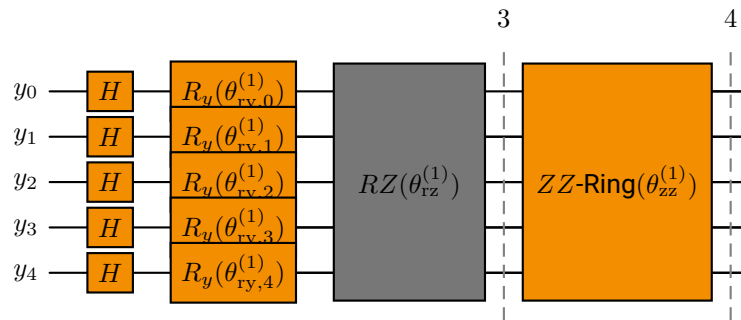
gateRZ

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

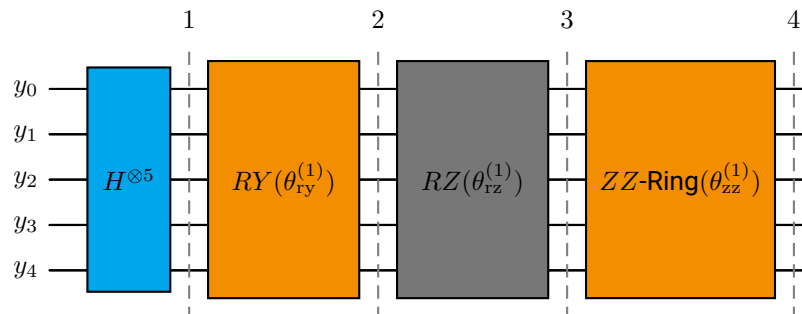
iqpsimple



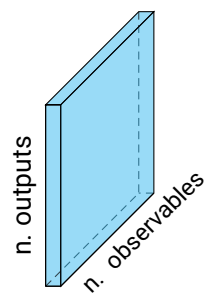
jamal_block



jamal_block2

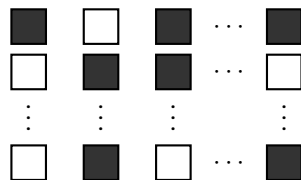


linhead



$$\mathcal{W} : \langle \vec{Z}_a \rangle + b$$

meas



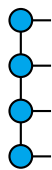
measbin

$$\begin{pmatrix} 0 & 1 & 0 & \cdots & 0 \\ 1 & 0 & 0 & \cdots & 1 \\ \vdots & \vdots & \vdots & & \vdots \\ 1 & 0 & 1 & \cdots & 0 \end{pmatrix}$$

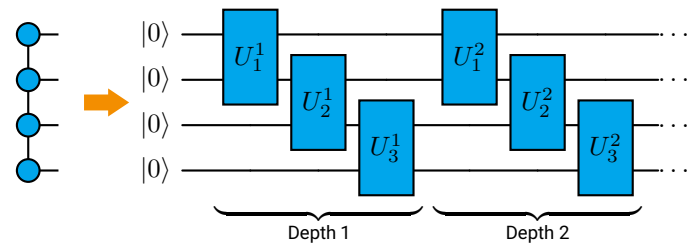
measbinalt

$$\begin{pmatrix} 1 & 1 & 1 & \cdots & 0 \\ 1 & 1 & 0 & \cdots & 1 \\ \vdots & \vdots & \vdots & & \vdots \\ 0 & 0 & 1 & \cdots & 1 \end{pmatrix}$$

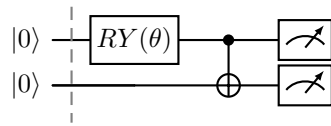
mps



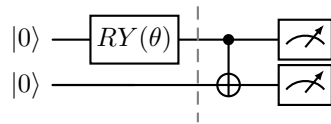
mpstobrick



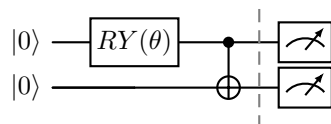
pbellcircuit1



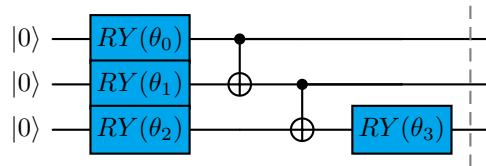
pbellcircuit2



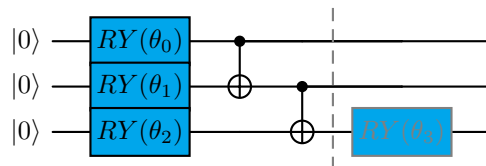
pbellcircuit3



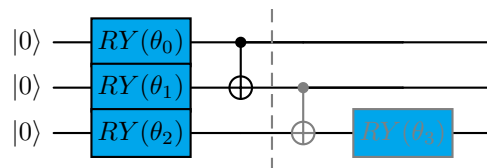
pbrickwallpp1



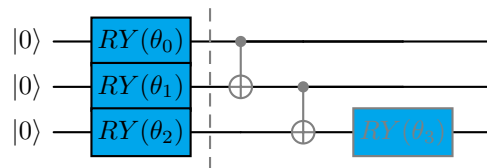
pbrickwallpp2



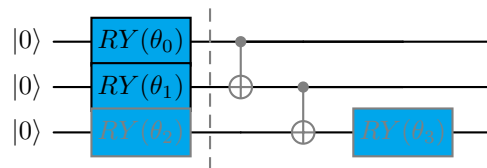
pbrickwallpp3



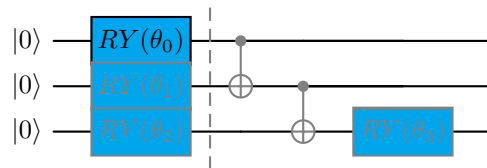
pbrickwallpp4



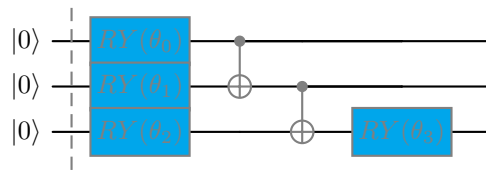
pbrickwallpp5



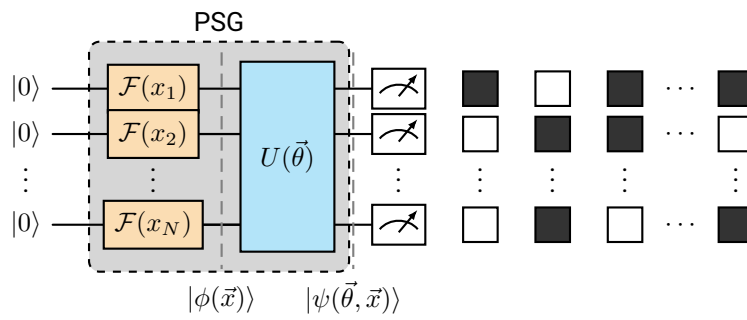
pbrickwallpp6



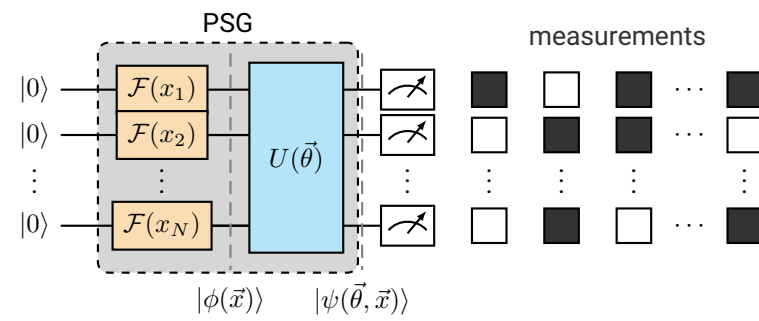
pbrickwallpp7



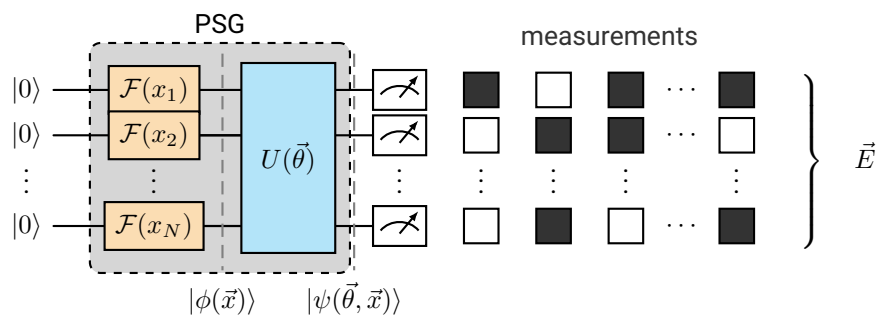
psg



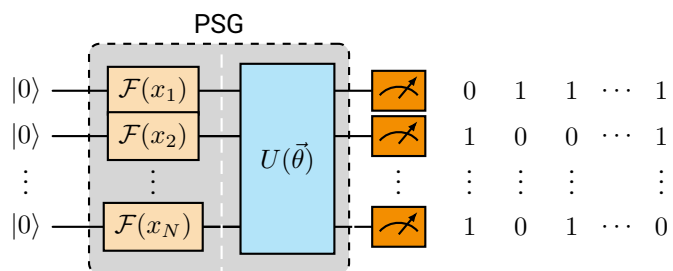
psg_model



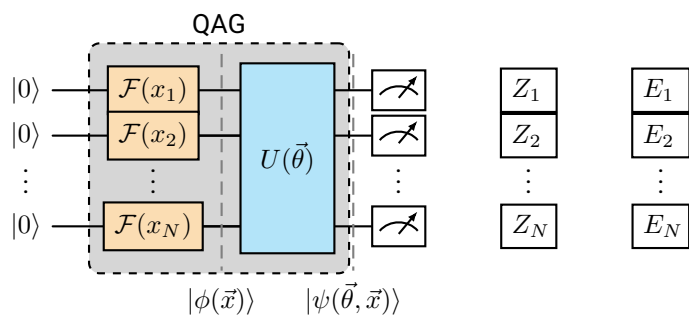
psg_modelE



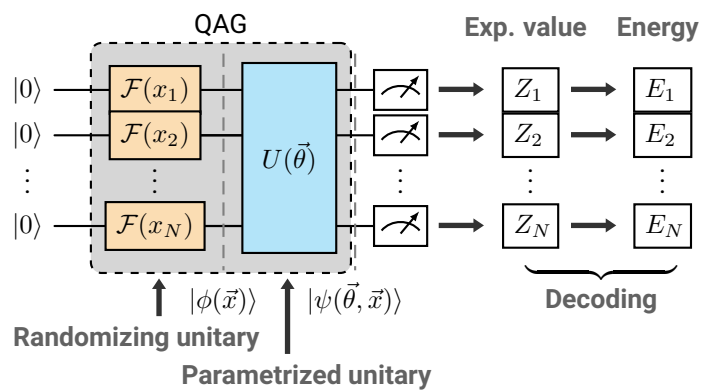
psgbp



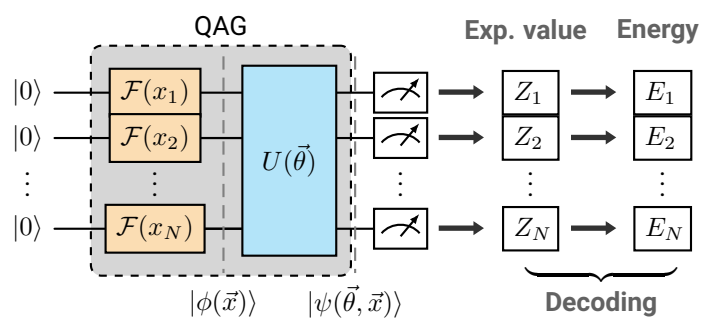
qag



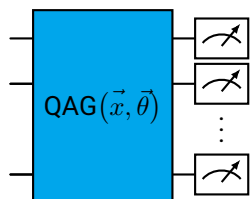
qag_model



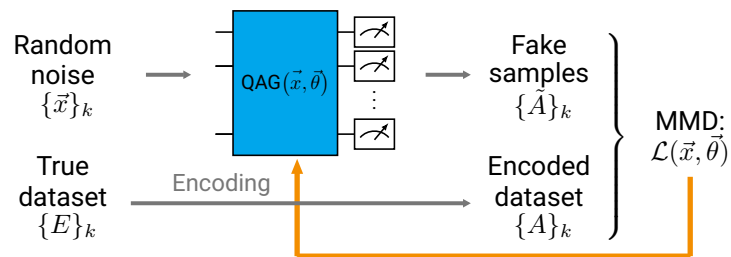
qag_model2



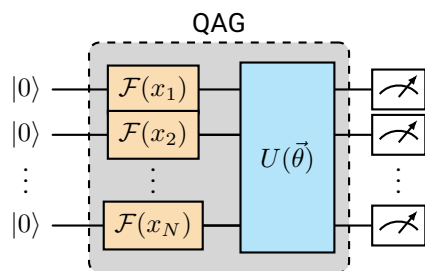
qag_small



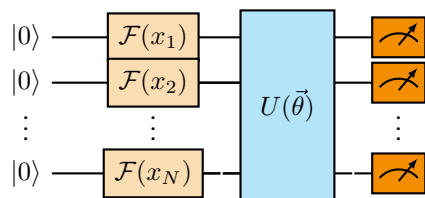
qag_train



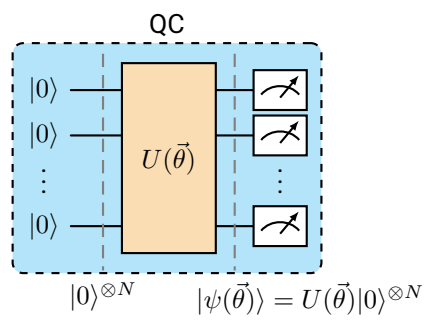
qagalt



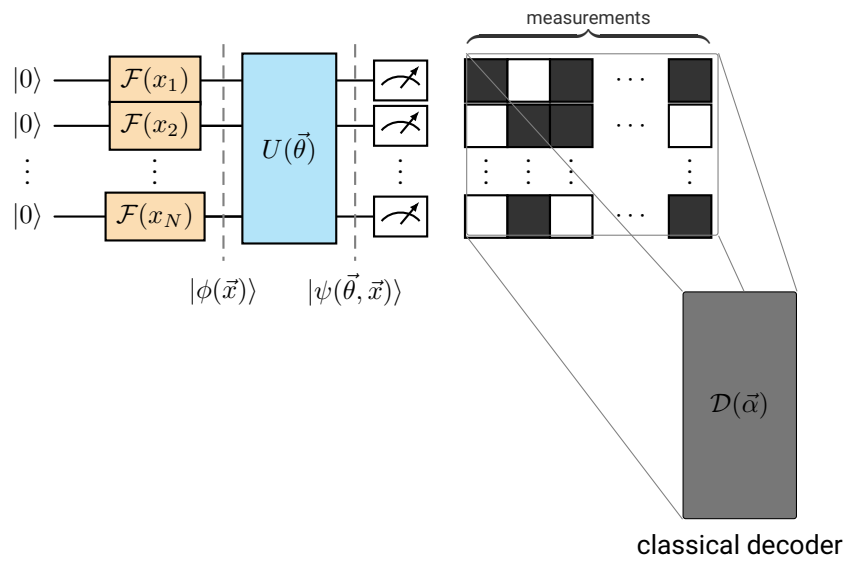
qagbp



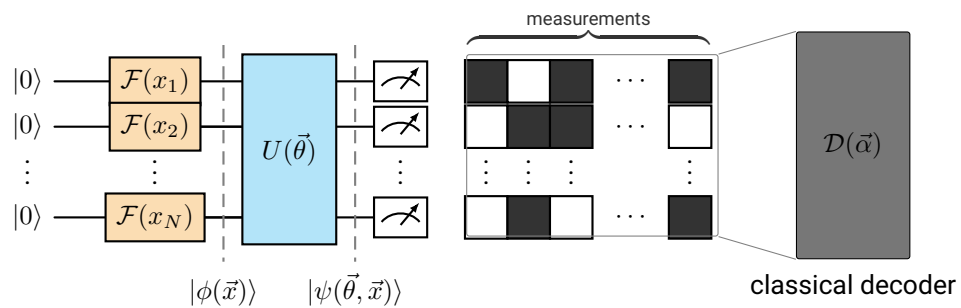
qc



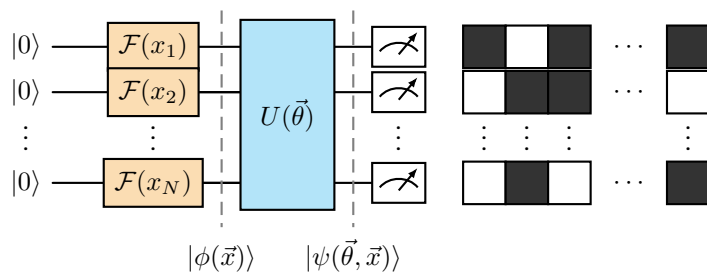
qchyb



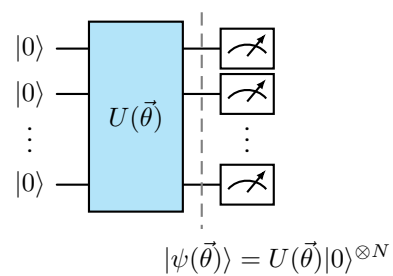
qchyb2



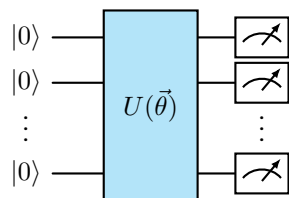
qcing



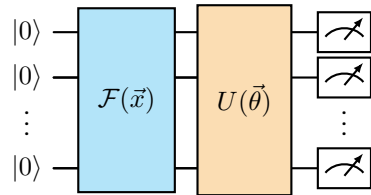
qcsimple



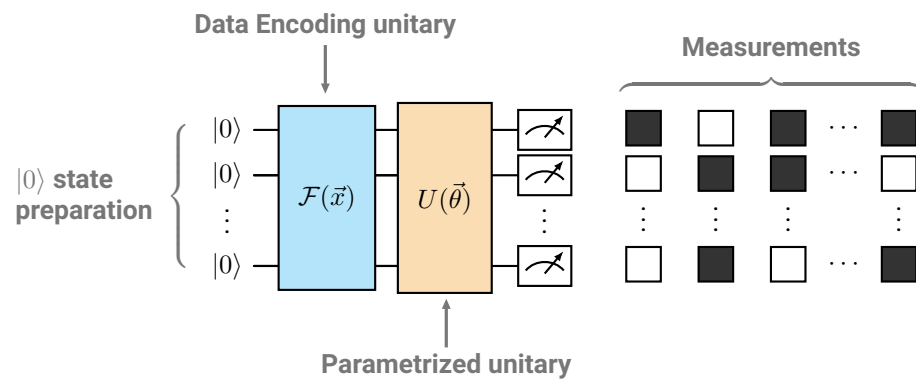
qcultrasimple



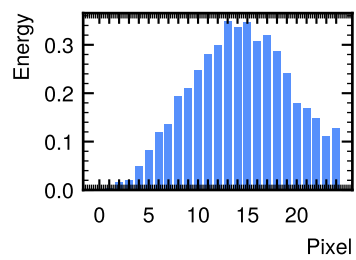
qml



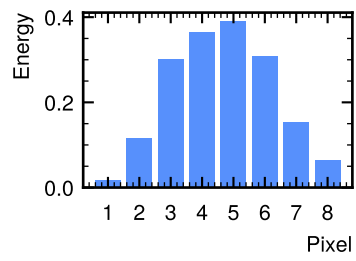
qml_model



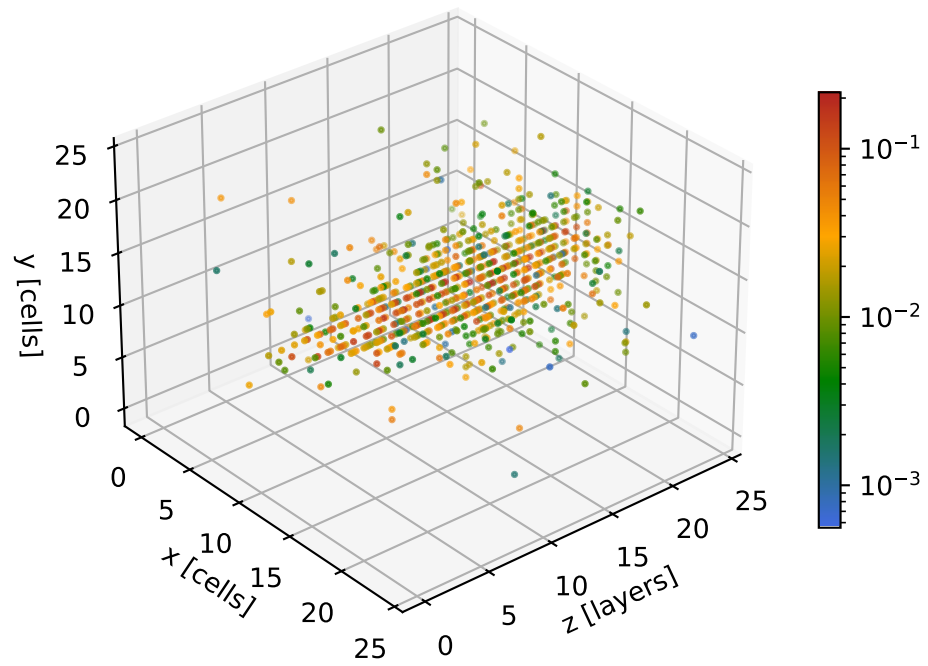
shower_25



shower_8



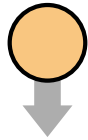
shower_full



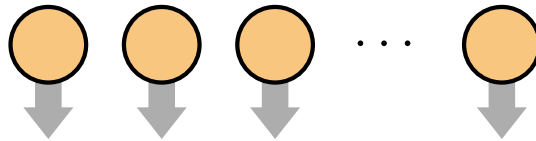
spin



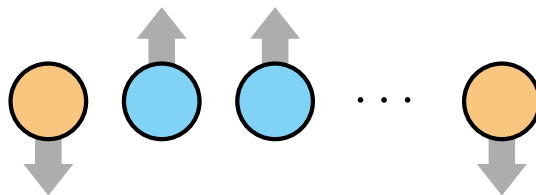
spindown



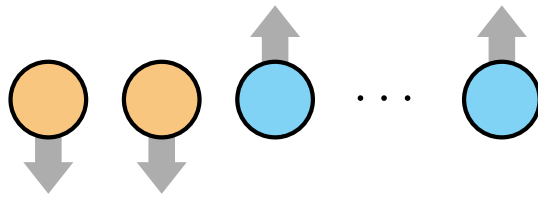
spindowns



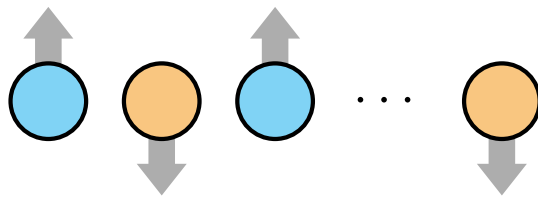
spinrand



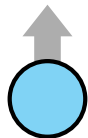
spinrandalt



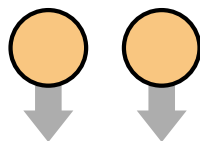
spinrandaltalt



spinup



twospinsdown



twospinsup

