

Squantikz squimports

Saverio Monaco

February 9, 2026

Contents

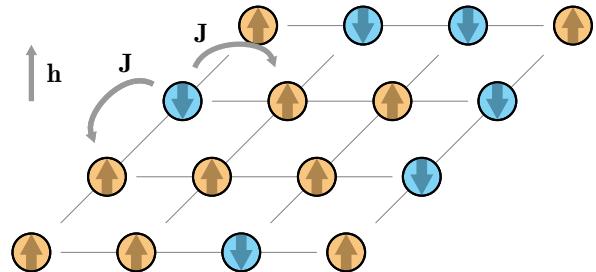
1 Commands	4
2dising	4
2disingsmall	4
annni	4
autoencoder	4
autoencodersmall	5
bellcircuit1	5
bellcircuit2	5
bellcircuit3	6
bellcircuitpp1	6
bellcircuitpp2	6
bellcircuitpp3	6
bellspins1	6
bellspins2	7
bellspins3	7
blochRX	7
blochRY	7
blochRZ	8
brick4	8
brick4small	8
brickwallpp1	8
brickwallpp2	8
brickwallpp3	9
brickwallpp4	9
brickwallpp5	9
brickwallpp6	9
brickwallpp7	10
clic8	10
convhead	10
encclic8	11
fxiqpsimple	11
gateCNOT	11

gateH	11
gateRX	12
gateRY	12
gateRZ	12
iqpsimple	12
jamal_block	12
jamal_block2	13
linhead	13
meas	13
measbin	13
measbinalt	14
mps	14
mpstobrick	14
pbellcircuit1	14
pbellcircuit2	15
pbellcircuit3	15
pbrickwallpp1	15
pbrickwallpp2	15
pbrickwallpp3	16
pbrickwallpp4	16
pbrickwallpp5	16
pbrickwallpp6	16
pbrickwallpp7	16
pictures	17
psg	17
psg_model	17
psg_modelE	18
psgbp	18
qag	18
qag_model	19
qag_model2	19
qag_small	19
qag_train	20
qagalt	20
qagbp	20
qc	21
qchyb	21
qchyb2	21
qcimg	22
qcnn	22
qcnnsmall	22
qcsimple	23
qcultrasimple	23
qml	23
qml_model	23
shower_25	24

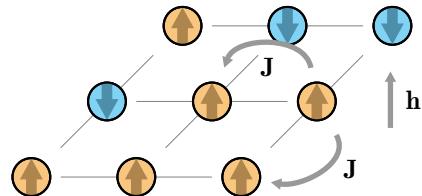
shower_8	24
shower_full	24
spin	25
spindown	25
spindowns	26
spinrand	26
spinrandalt	26
spinrandaltalt	26
spinup	27
twospinsdown	27
twospinsup	27
vqe_loop	27

1 Commands

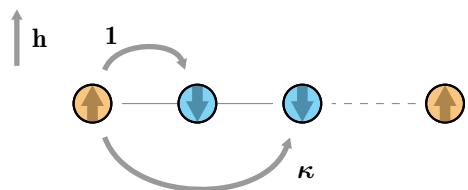
2dising



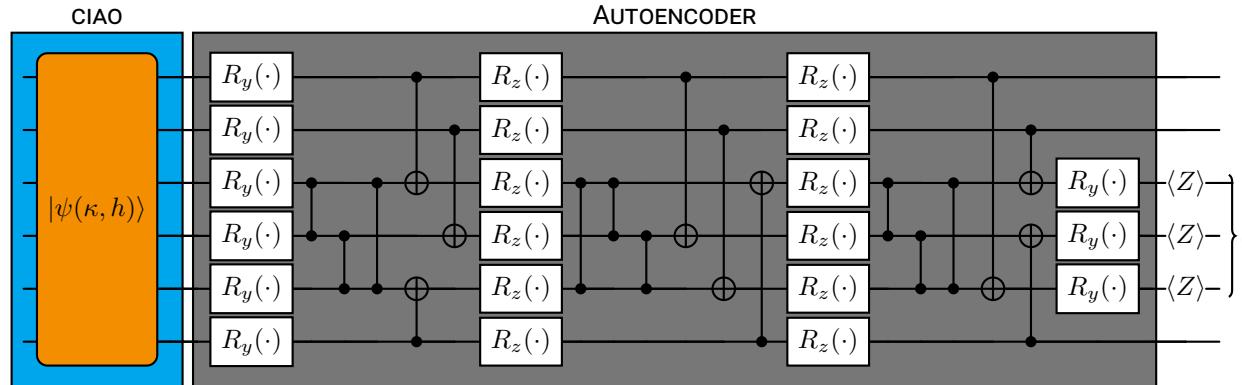
2disingsmall



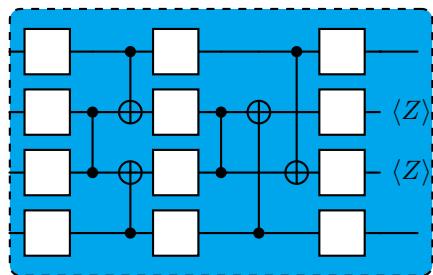
annni



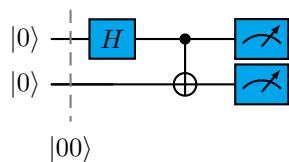
autoencoder



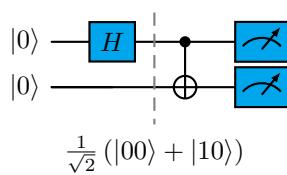
autoencodersmall



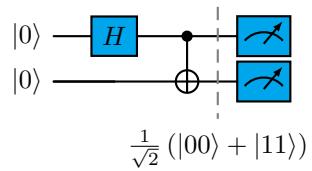
bellcircuit1



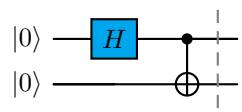
bellcircuit2



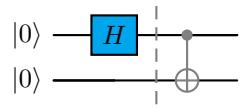
bellcircuit3



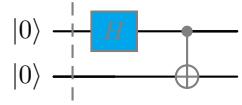
bellcircuitpp1



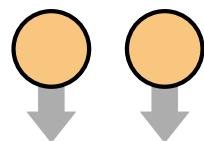
bellcircuitpp2



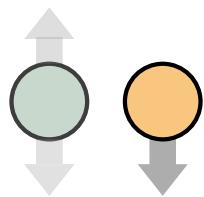
bellcircuitpp3



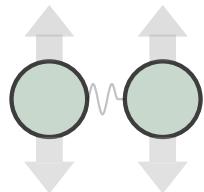
bellspins1



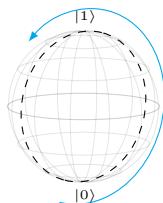
bellspins2



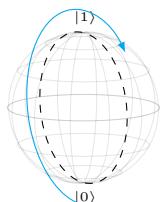
bellspins3



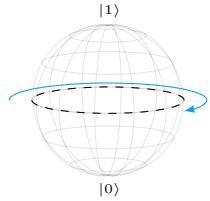
blochRX



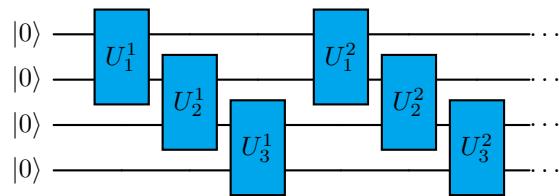
blochRY



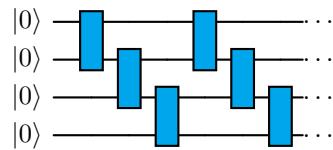
blochRZ



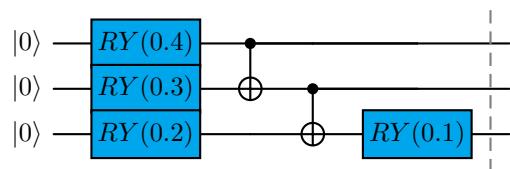
brick4



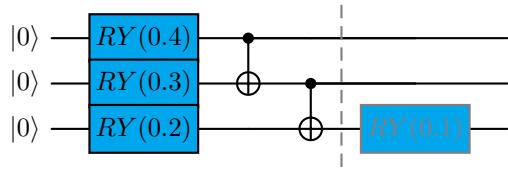
brick4small



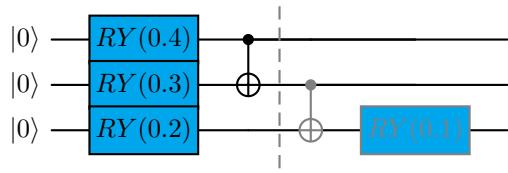
brickwallpp1



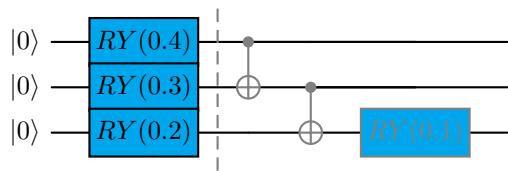
brickwallpp2



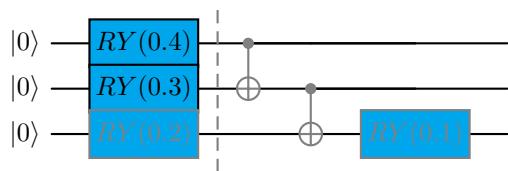
brickwallpp3



brickwallpp4

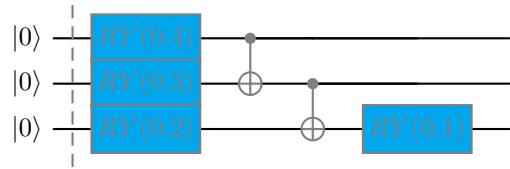


brickwallpp5

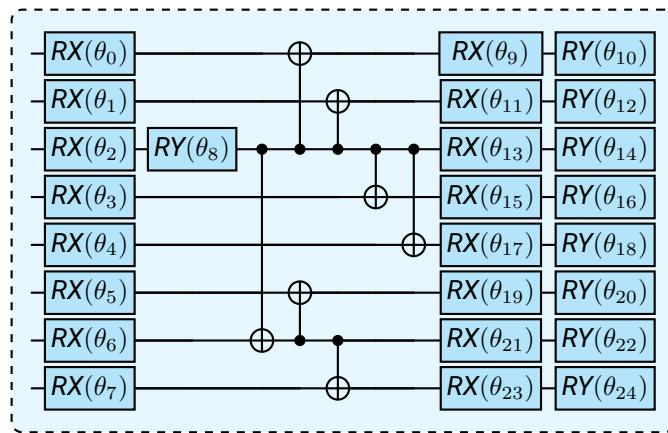


brickwallpp6

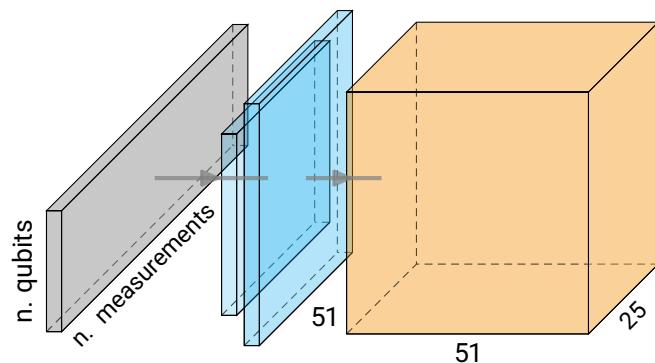
brickwallpp7



clic8

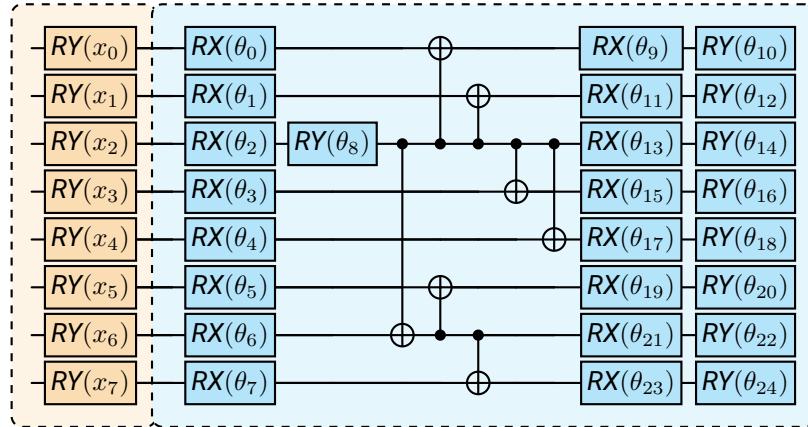


convhead

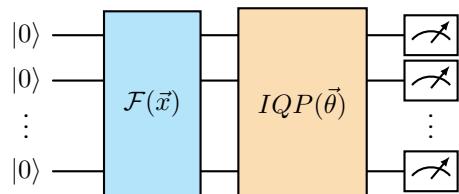


Convolution

encclic8



fxiqpsimple



gateCNOT

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

gateH

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

gateRX

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

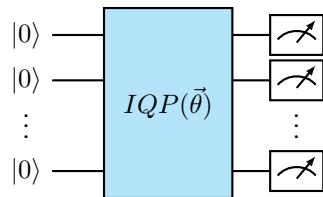
gateRY

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

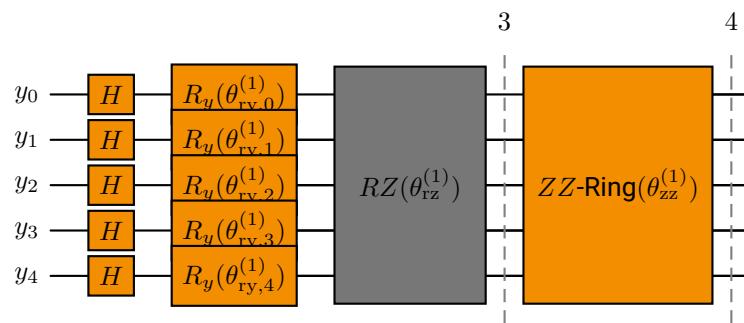
gateRZ

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

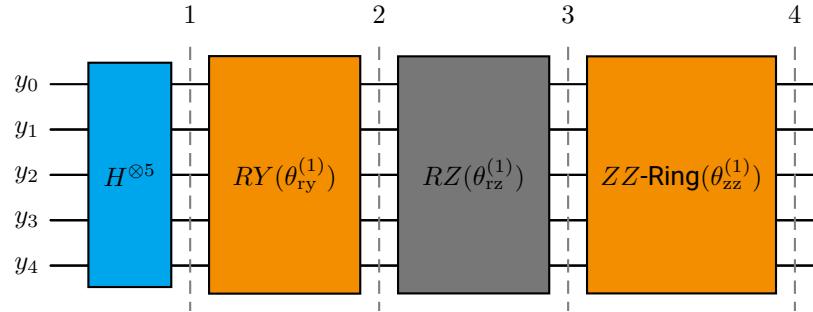
iqpsimple



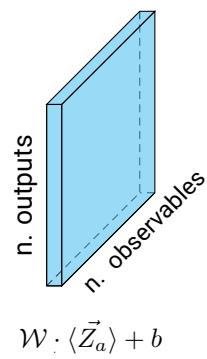
jamal_block



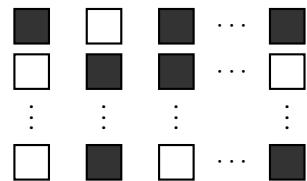
jamal_block2



linhead



meas



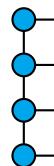
measbin

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

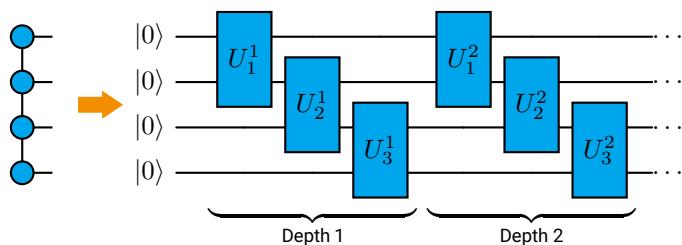
measbinalt

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

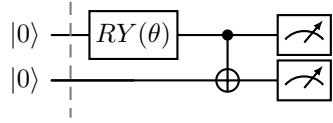
mps



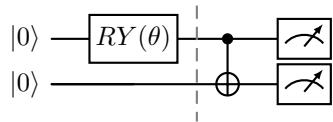
mpstobrick



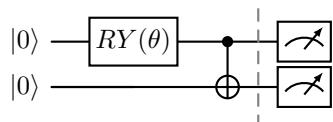
pbellcircuit1



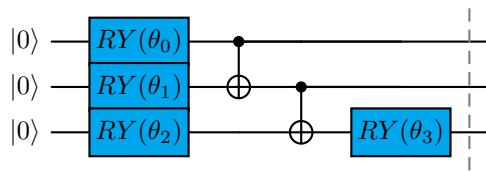
pbellcircuit2



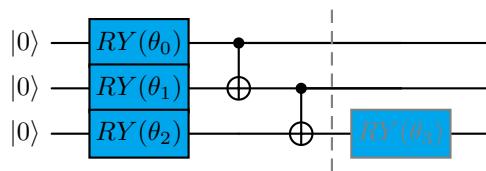
pbellcircuit3



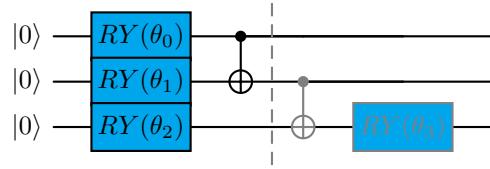
pbrickwallpp1



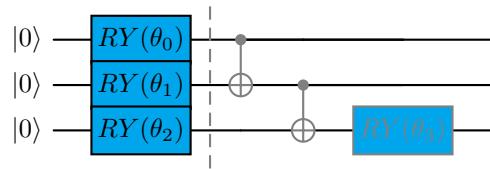
pbrickwallpp2



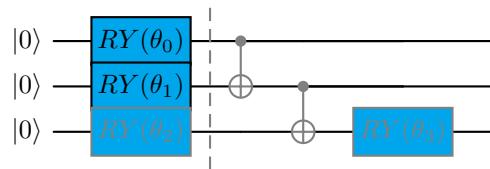
pbrickwallpp3



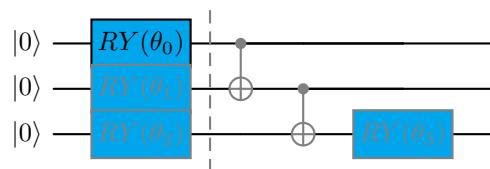
pbrickwallpp4



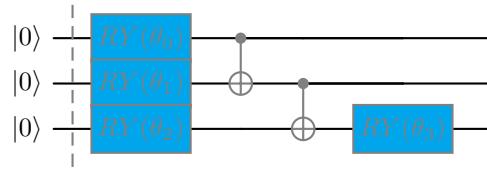
pbrickwallpp5



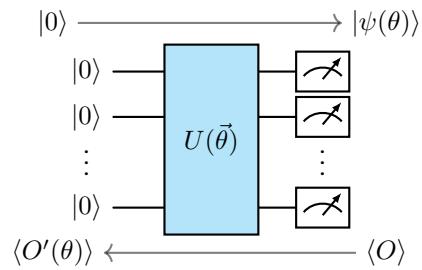
pbrickwallpp6



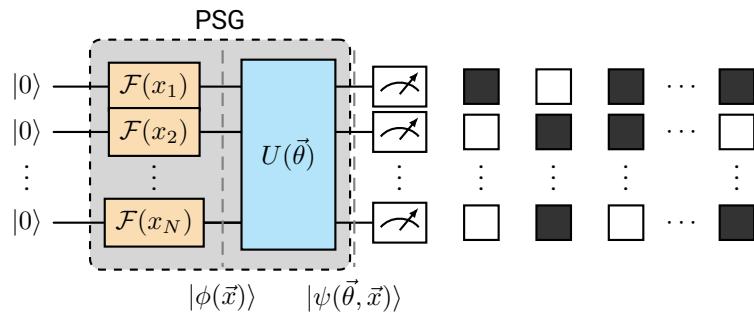
pbrickwallpp7



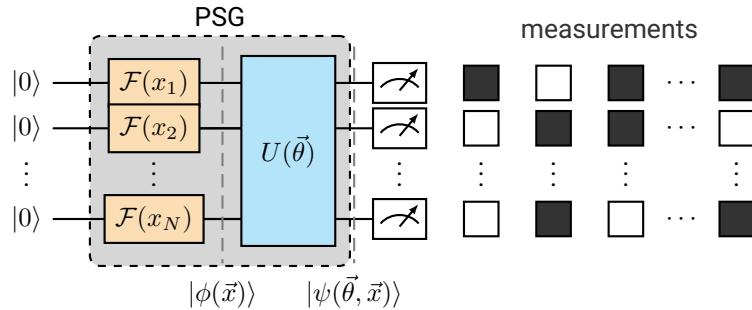
pictures



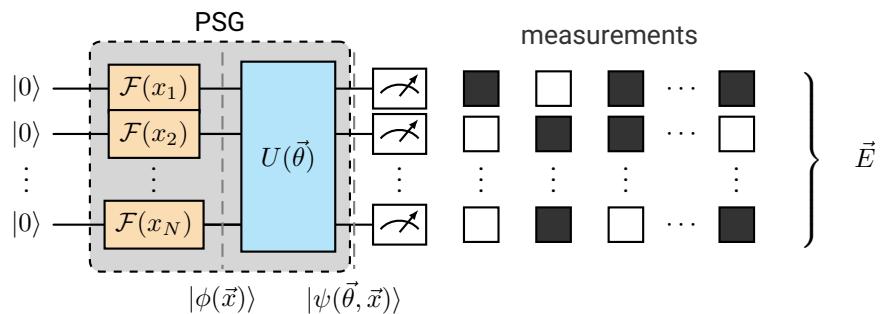
psg



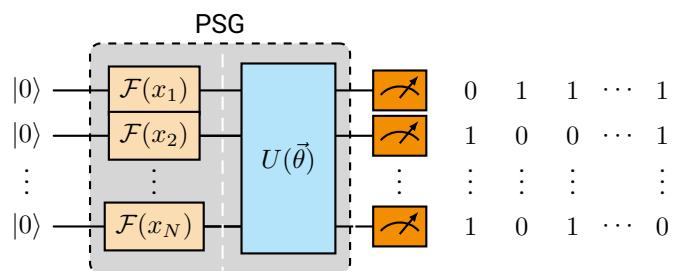
psg_model



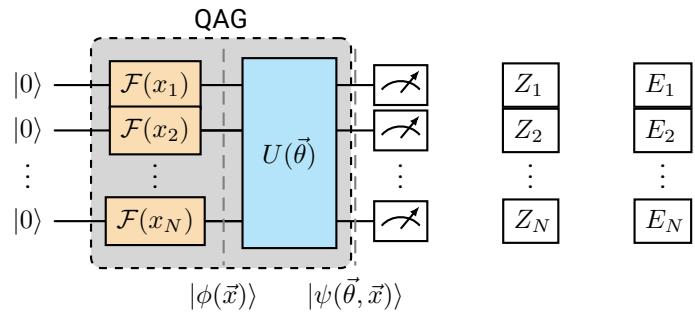
psg_modelE



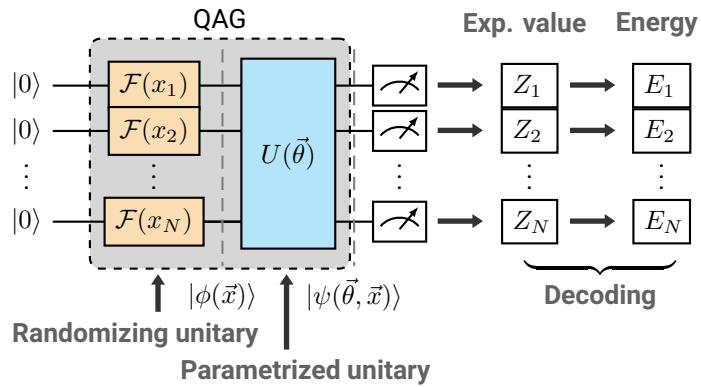
psgbp



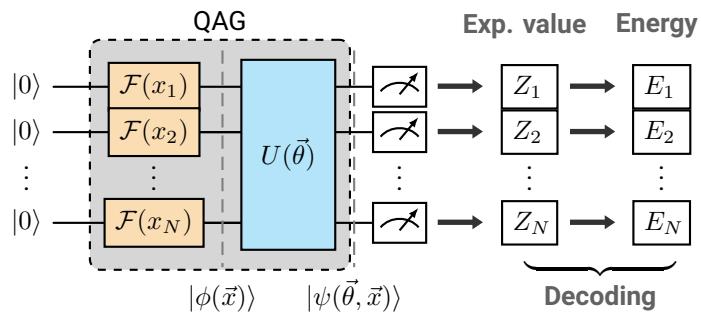
qag



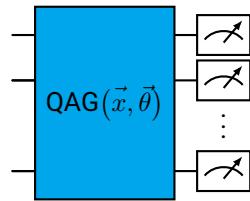
qag_model



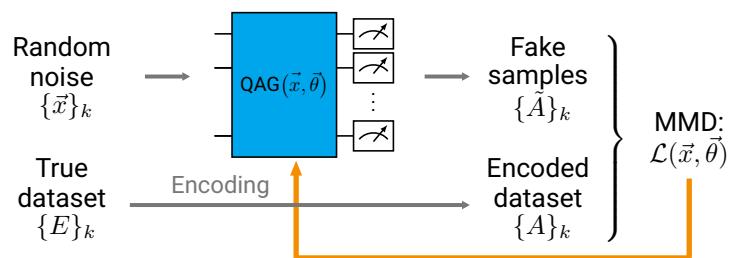
qag_model2



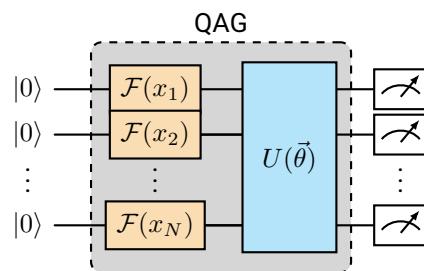
qag_small



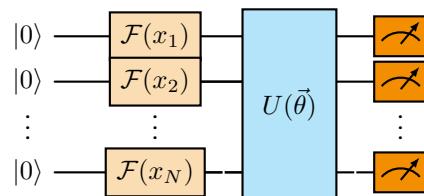
qag_train



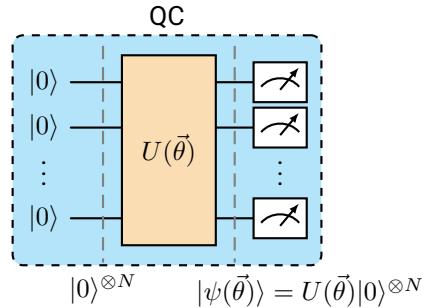
qagalt



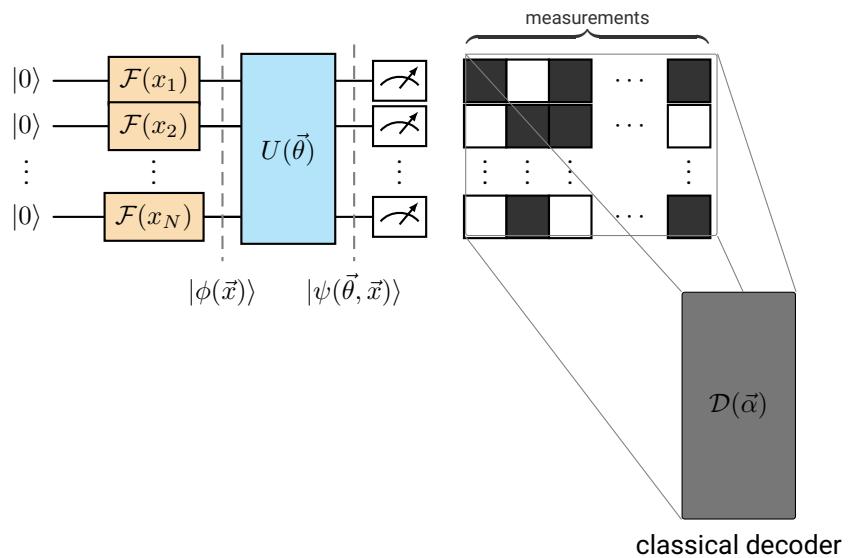
qagbp



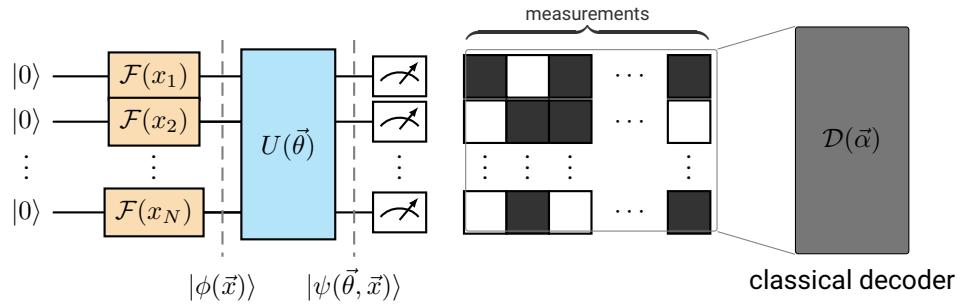
qc



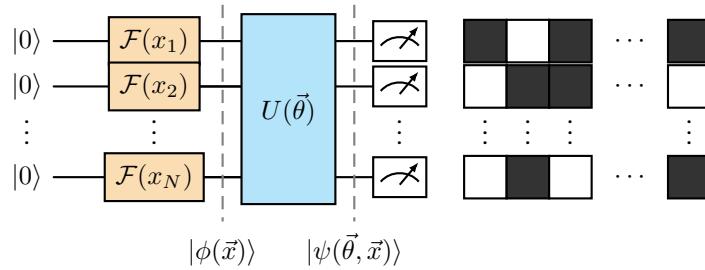
qchyb



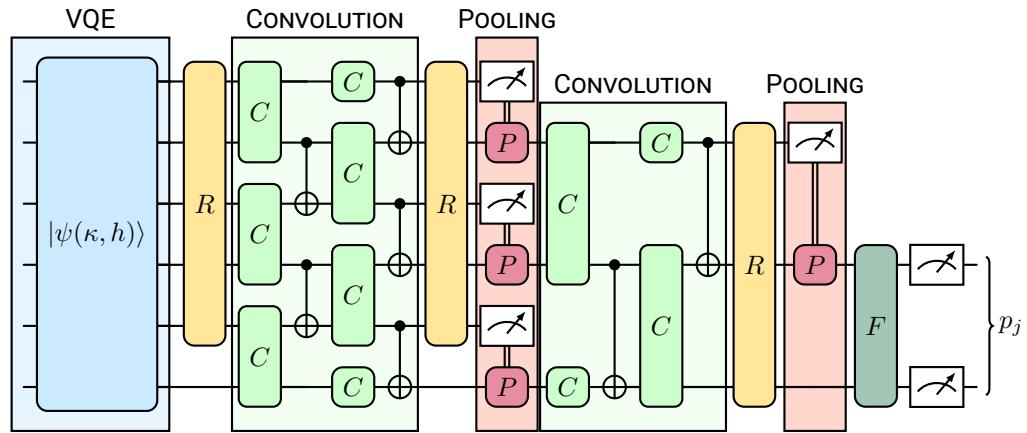
qchyb2



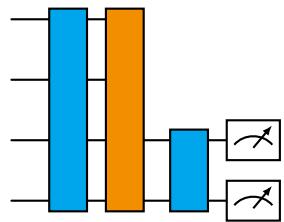
qcimg



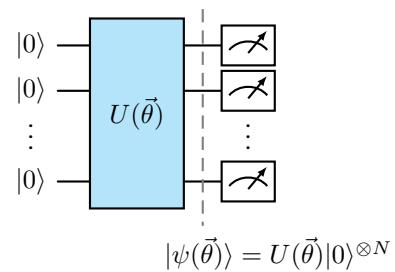
qcnn



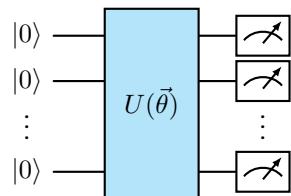
qcnnsmall



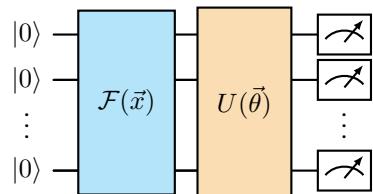
qcsimple



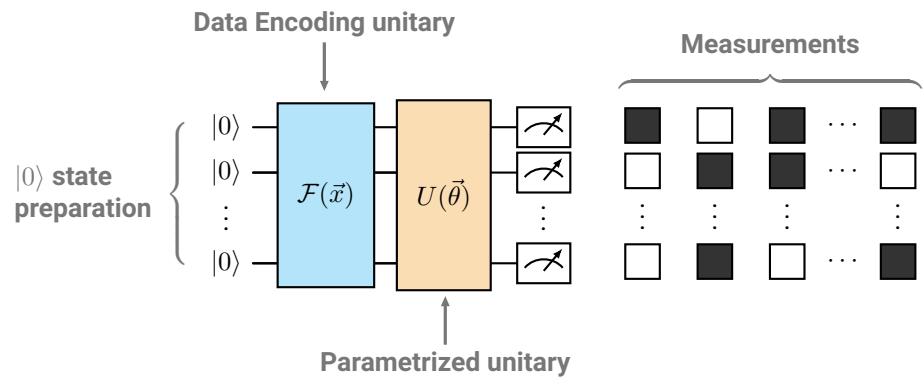
qcusimple



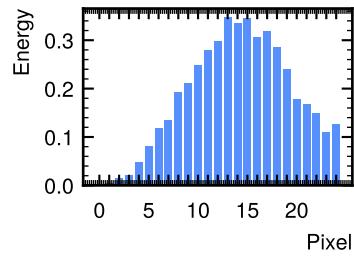
qml



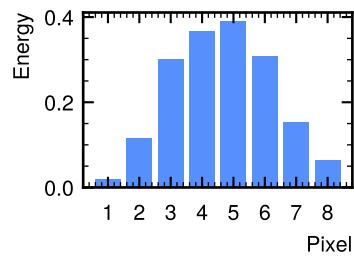
qml_model



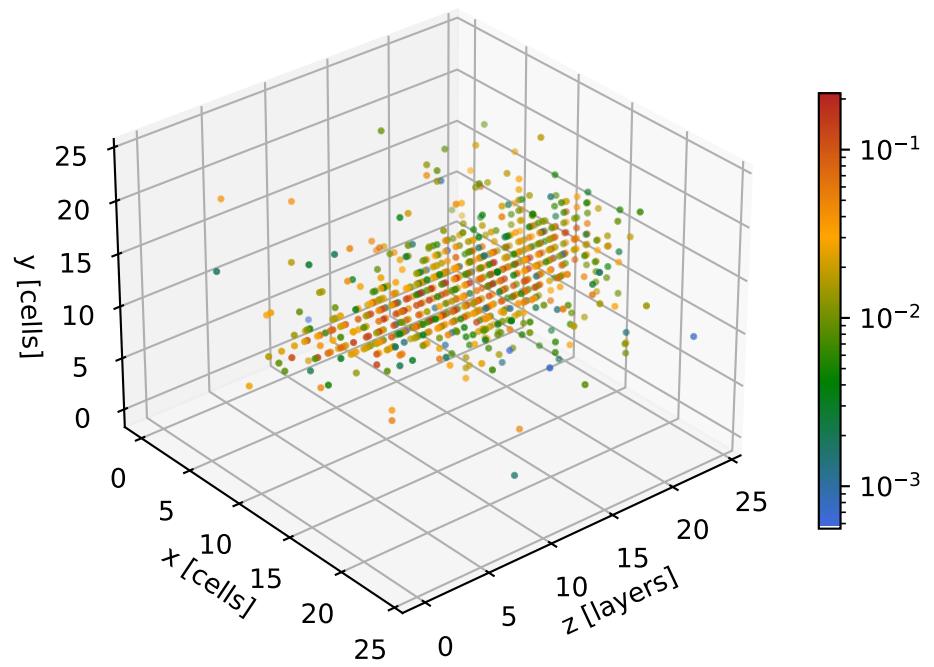
shower_25



shower_8



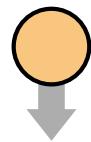
shower_full



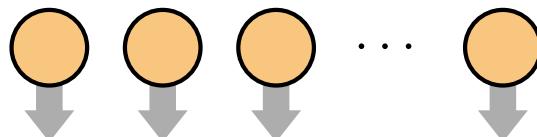
spin



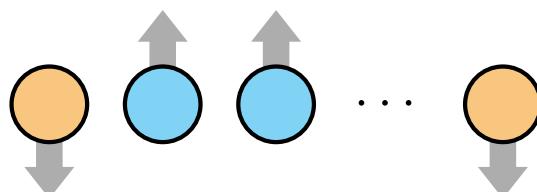
spindown



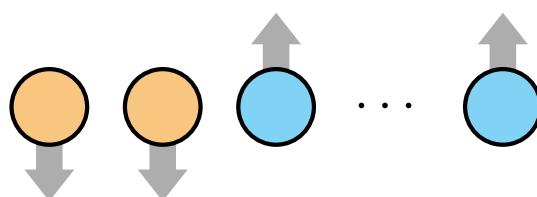
spindowns



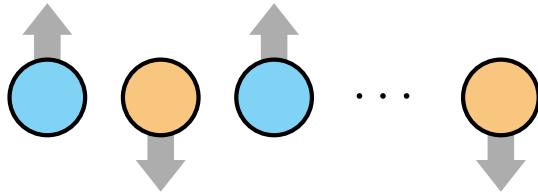
spinrand



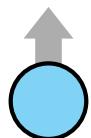
spinrandalt



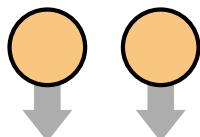
spinrandaltalt



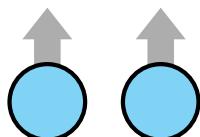
spinup



twospinsdown



twospinsup



vqe_loop

