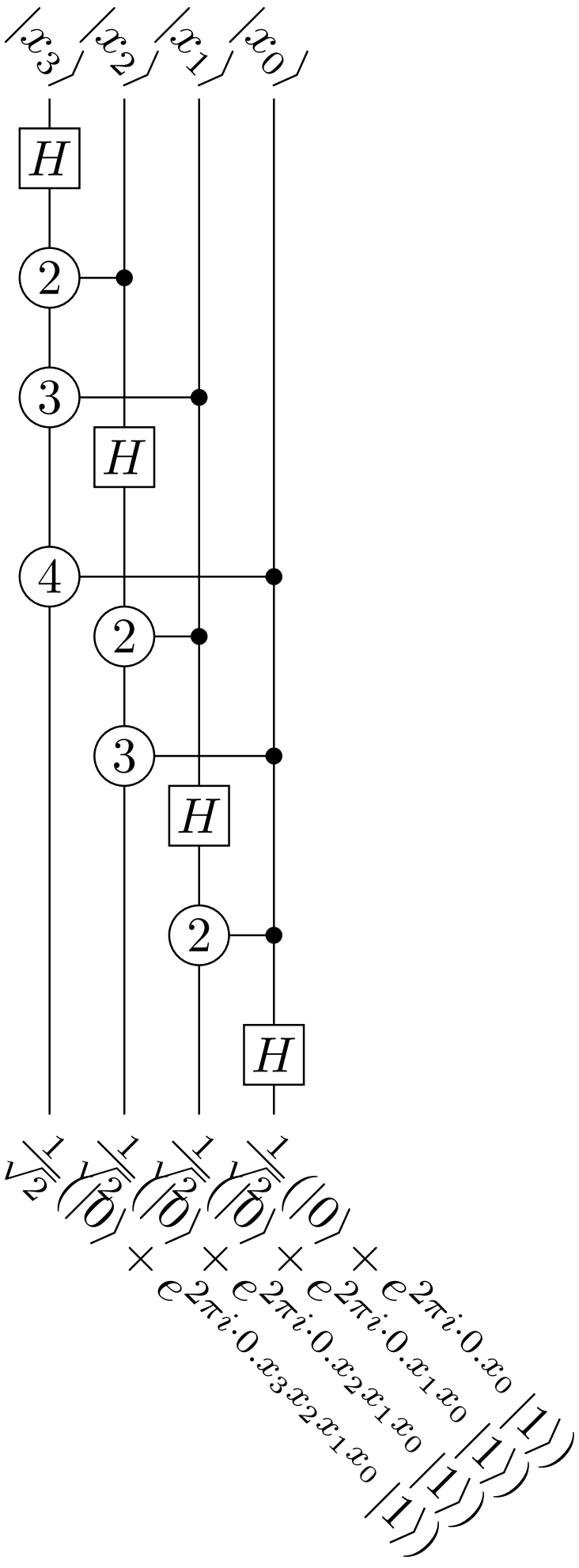
$|x_3\rangle$
$|x_2\rangle$
$|x_1\rangle$
$|x_0\rangle$
H
2
3
H
4
2
3
H
2
H
$\frac{1}{\sqrt{2}}(|0\rangle + |1\rangle)$
$\frac{1}{\sqrt{2}}(|0\rangle + |1\rangle)$
$\frac{1}{\sqrt{2}}(|0\rangle + |1\rangle)$
$\frac{1}{\sqrt{2}}(|0\rangle + |1\rangle)$
$|0\rangle$
$\times e^{2\pi i \cdot 0.x_3 x_2 x_1 x_0}|1\rangle)$
$\times e^{2\pi i \cdot 0.x_2 x_1 x_0}|1\rangle)$
$\times e^{2\pi i \cdot 0.x_1 x_0}|1\rangle)$
$\times e^{2\pi i \cdot 0.x_0}|1\rangle)$