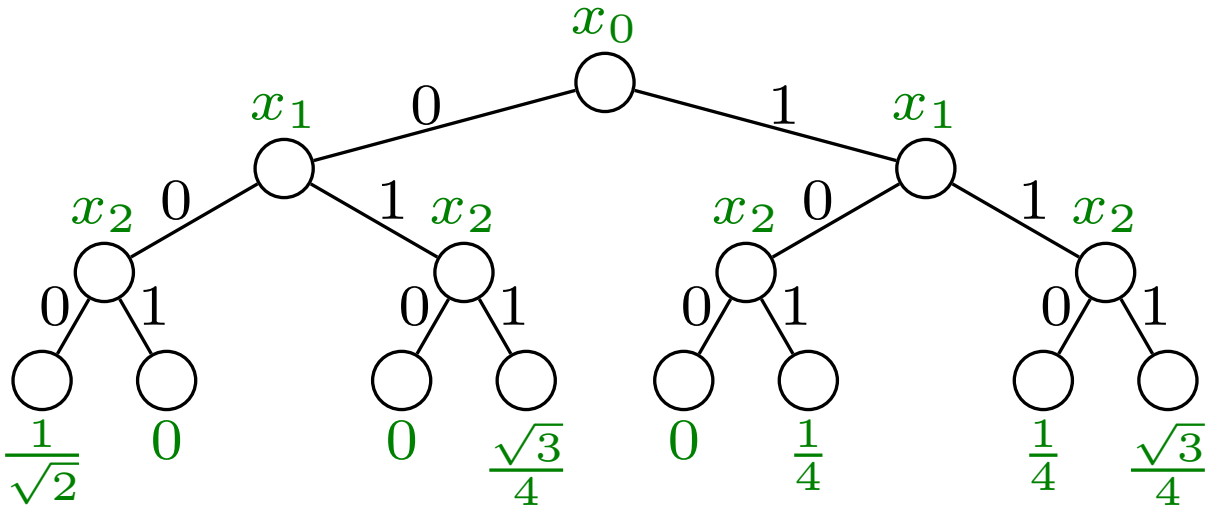
000	$\frac{1}{\sqrt{2}}$	100	0
001	0	101	$\frac{1}{4}$
010	0	110	$\frac{1}{4}$
011	$\frac{\sqrt{3}}{4}$	111	$\frac{\sqrt{3}}{4}$


x_0
x_1
0
1
x_1
x_2
0
1
x_2
x_2
0
1
x_2
0
1
0
1
0
1
0
1
$\frac{1}{\sqrt{2}}$
0
0
$\frac{\sqrt{3}}{4}$
0
$\frac{1}{4}$
$\frac{1}{4}$
$\frac{\sqrt{3}}{4}$

$$(1/\sqrt{2})\ |000\rangle + (\sqrt{3}/4)\ |011\rangle + (1/4)\ |101\rangle + (1/4)\ |110\rangle + (\sqrt{3}/4)\ |111\rangle$$

$$\left[\begin{array}{cccccccc} \frac{1}{\sqrt{2}} & 0 & 0 & \frac{\sqrt{3}}{4} & 0 & \frac{1}{4} & \frac{1}{4} & \frac{\sqrt{3}}{4} \end{array}\right]^T$$