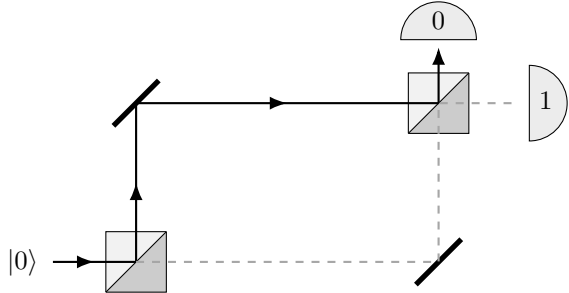


two consecutive transmissions:

$$\text{probability amplitude} = \frac{i}{\sqrt{2}} \frac{i}{\sqrt{2}} = -\frac{1}{2}$$



two consecutive reflections:

$$\text{probability amplitude} = \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \frac{1}{2}$$