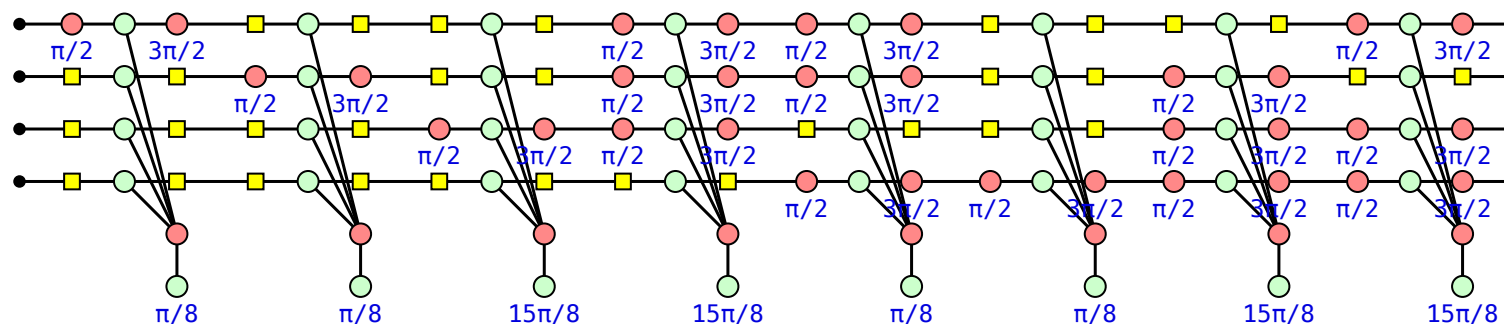


```
[3]: gadgets = [
    Gadget('YXXX', phase=1/8), Gadget('YXXX', phase=1/8),
    Gadget('XXYX', phase=-1/8), Gadget('YYXX', phase=-1/8),
    Gadget('YYXY', phase=1/8), Gadget('XXXY', phase=1/8),
    Gadget('XYYY', phase=-1/8), Gadget('YXYY', phase=-1/8)
]

circuit = GadgetCircuit(gadgets)
circuit.draw()
```



```
[2]: #####
%cd /Users/ayman/Documents/Dev/zxfermion
%load_ext autoreload
%autoreload 2

import json
import pyzx as zx
import numpy as np
from copy import copy, deepcopy
from itertools import combinations
```