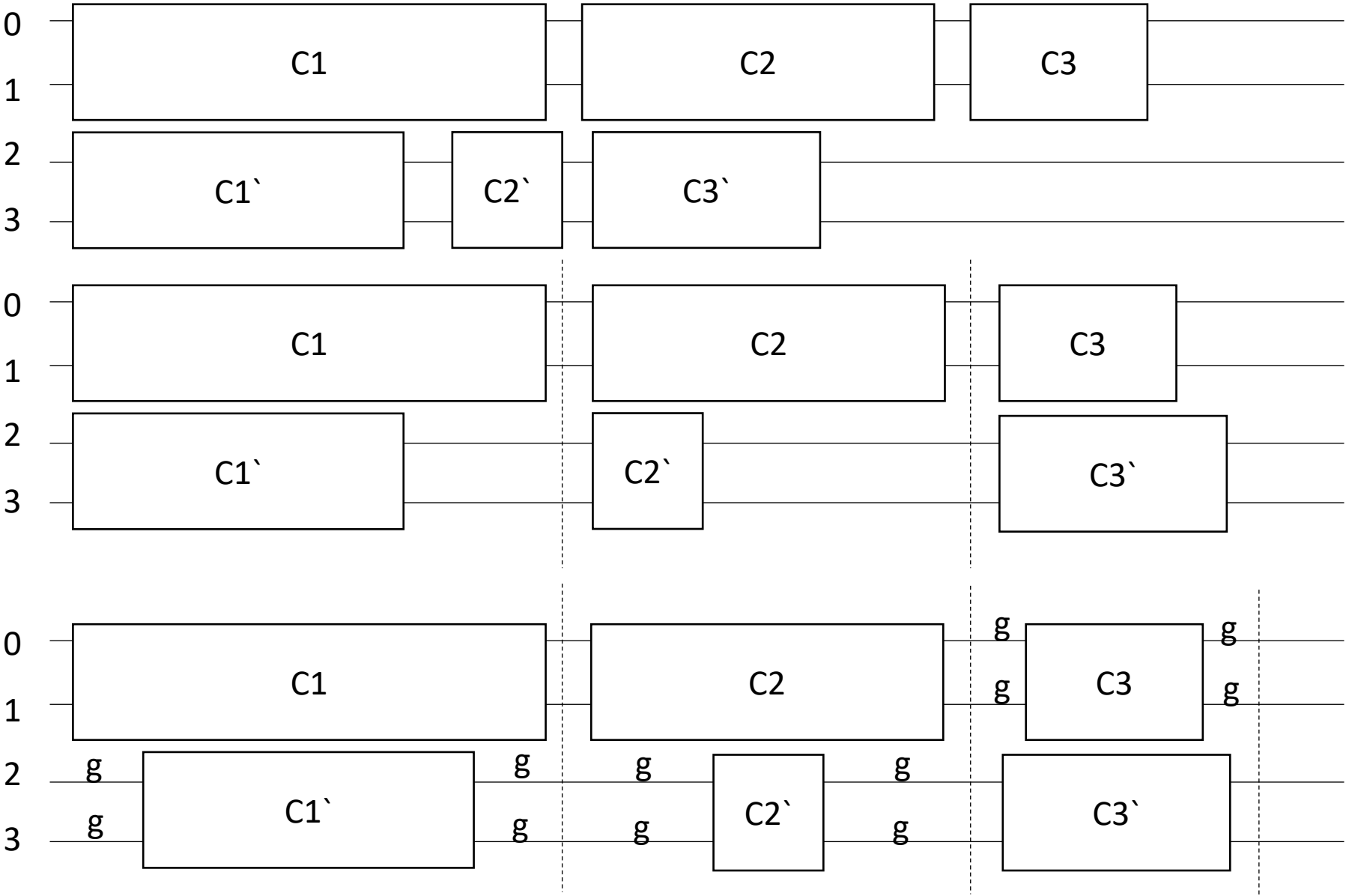
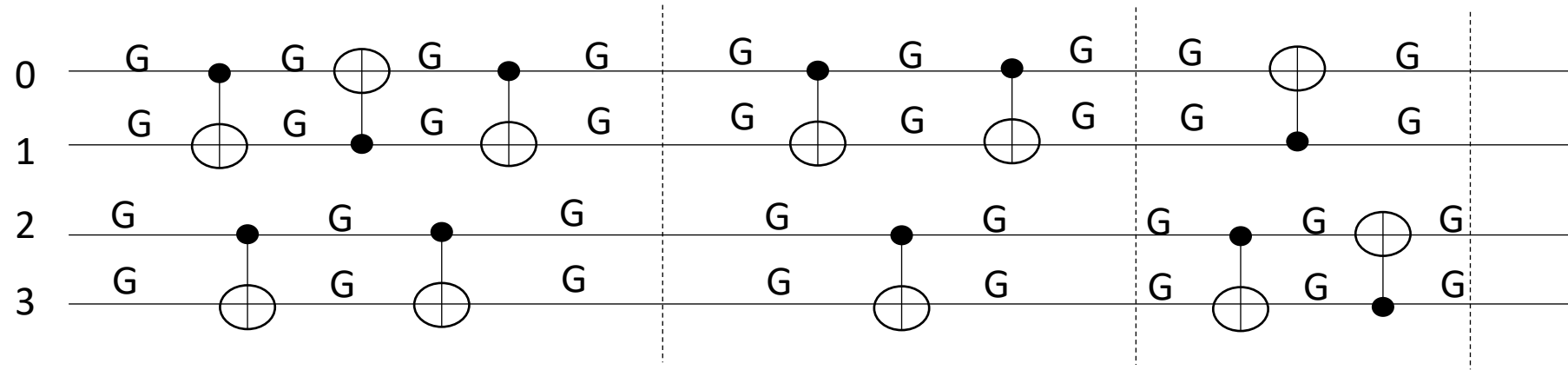
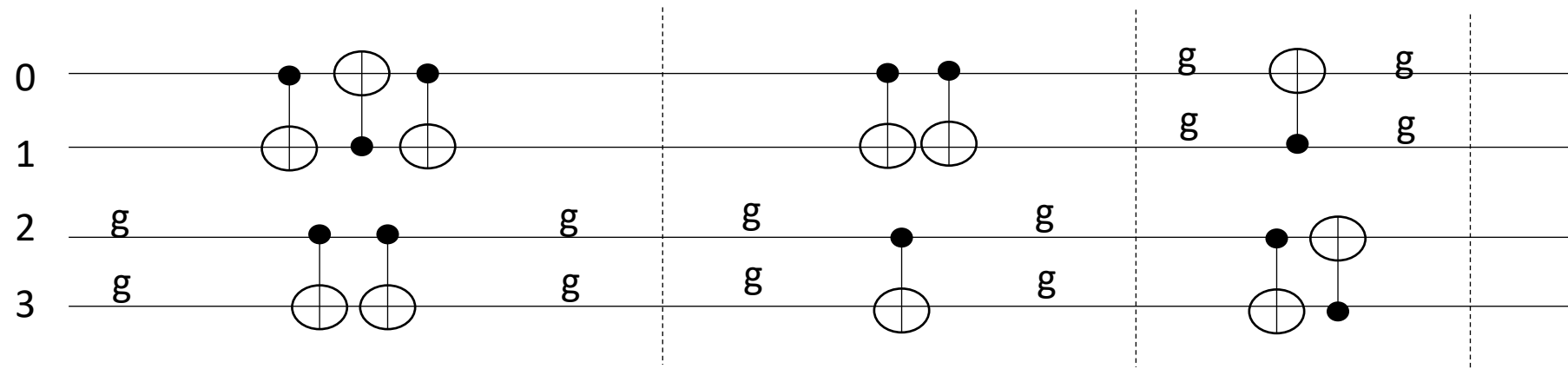
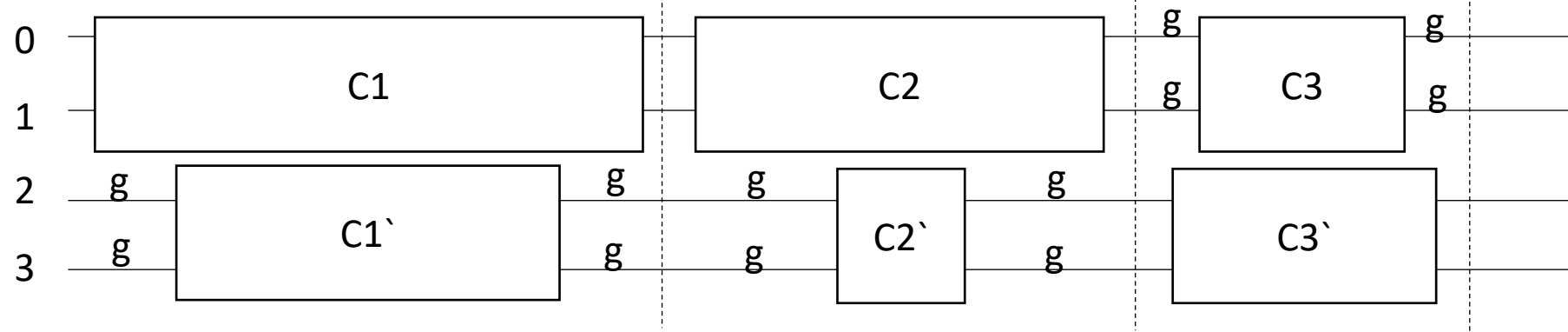


Simultaneous Randomized Benchmarking

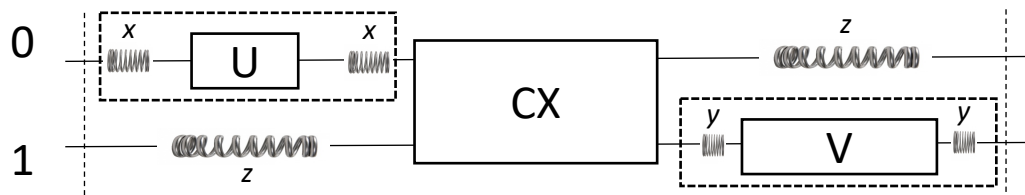






Infinitestretch
(i.e. don't care)

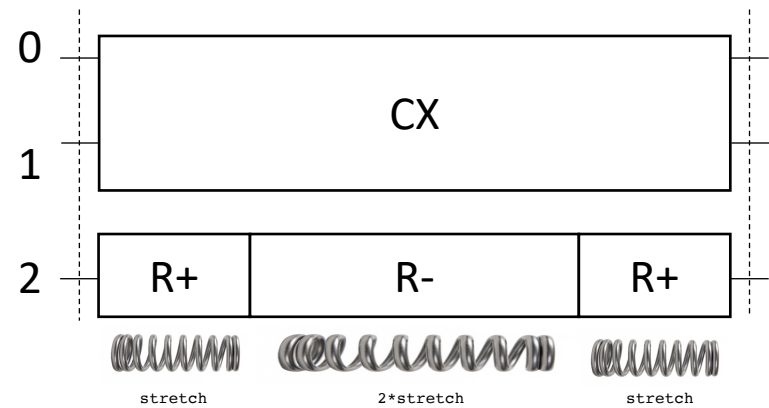
Infinitestretch
(i.e. don't care)



```
-----  
stretchas x 0;  
U 0;  
Stretchas x 0;  
Stretchas z 1;  
Cx 0, 1;
```

```
-----  
Cx qr[0], qr[1];  
Cx %0, %1  
Declare stretch x  
Qreg qr0, qr1,  
%0, %1, %2, %3, %4  
Stretch %1; //C1  
Boxto stretch { // C2  
    stretch %0;  
    U 0;  
    stretch;  
}  
Cx 0, 1;  
Stretch 0; // C3  
Boxto stretch { // C4  
    stretch 0;  
    U 0;  
    stretch;  
}  
Gatecal CX %0, %1 {  
    play(gaussian, drive(%0))  
}
```

Ponged CX – example of stretchy gate



Centered DD

