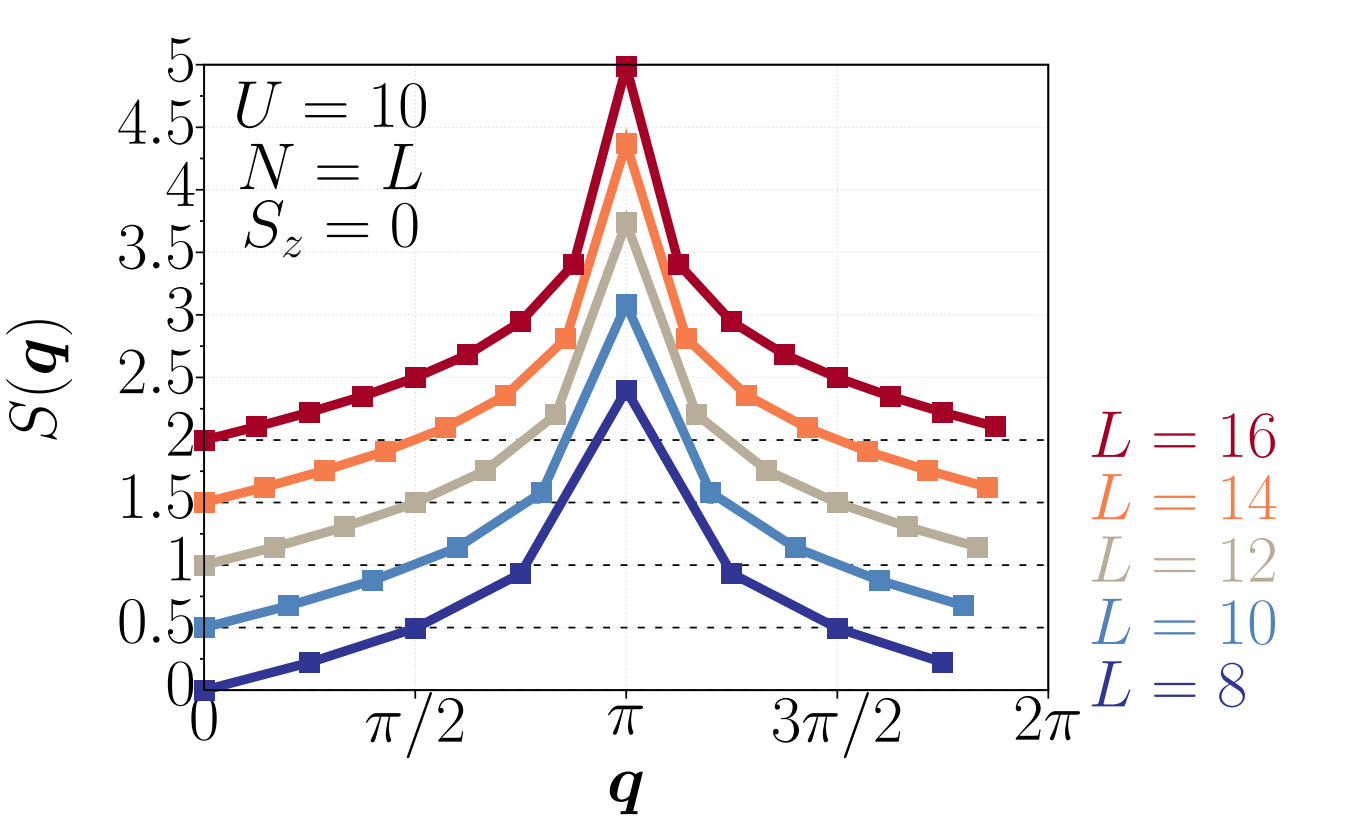

$U = 10$
$N = L$
$S_z = 0$
$S(\boldsymbol{q})$
$\boldsymbol{q}$
0
$\pi/2$
π
$3\pi/2$
2π
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
$L = 16$
$L = 14$
$L = 12$
$L = 10$
$L = 8$