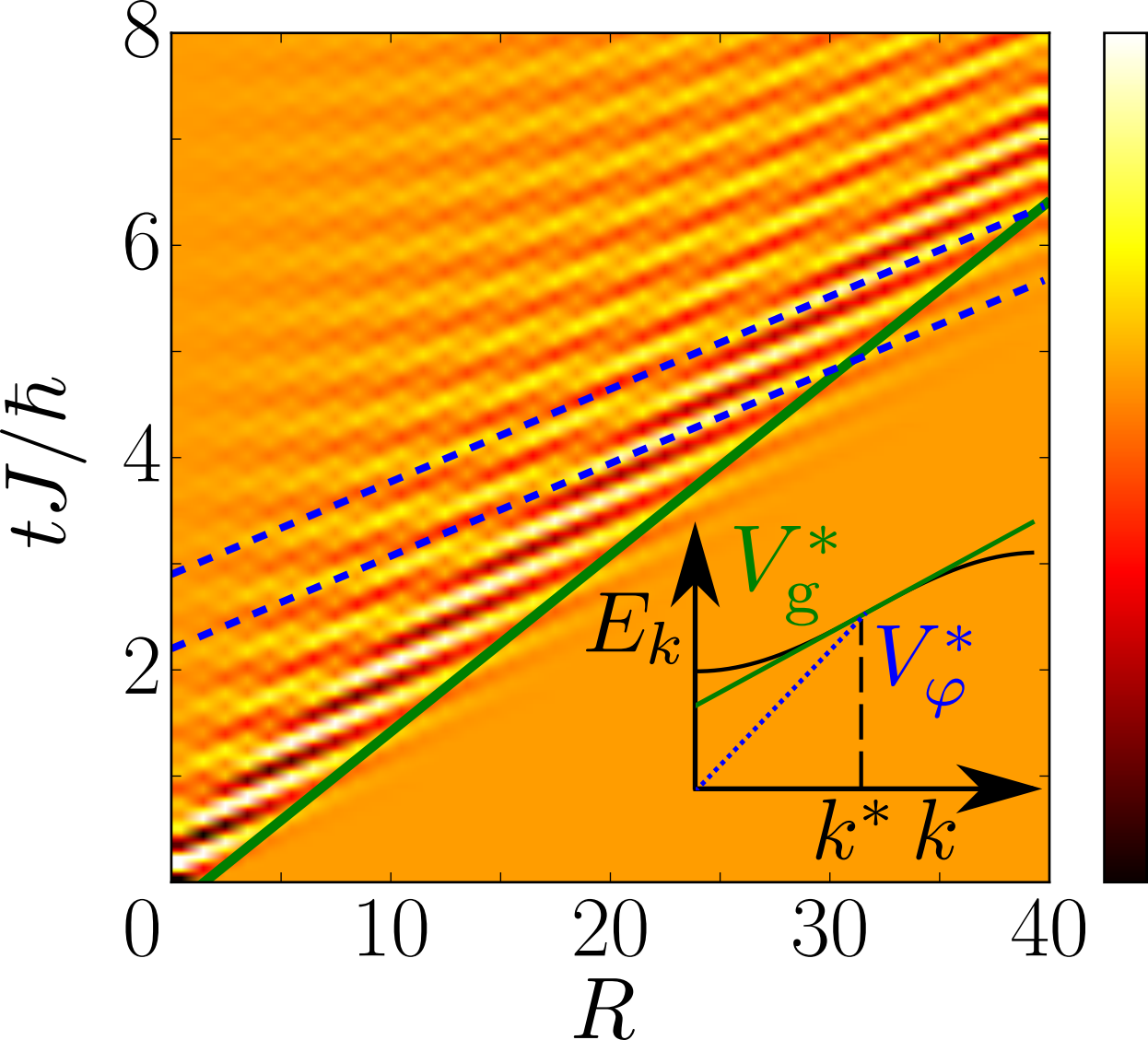
8
6
4
2
0
10
20
30
40
$tJ/\hbar$
R
E_k
V_g^*
V_φ^*
k^*
k