

$$A_1^C(\pi)$$

$$A_2^T(\pi)$$

$$B_3^T(\pi)$$

$$B_4^C(\pi)$$

Control

$|r_i\rangle_C$

$|0_i\rangle_C$

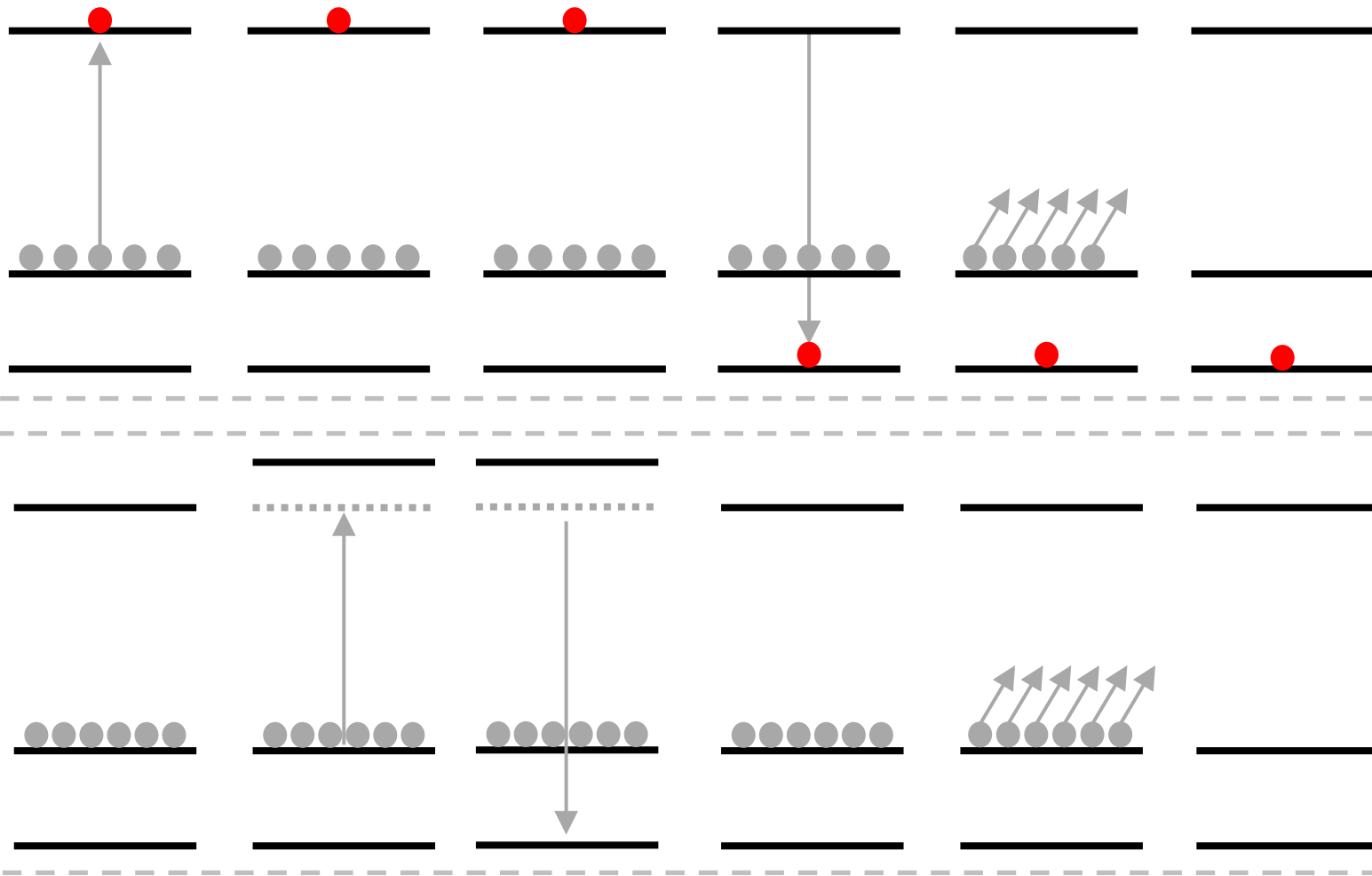
$|1_i\rangle_C$

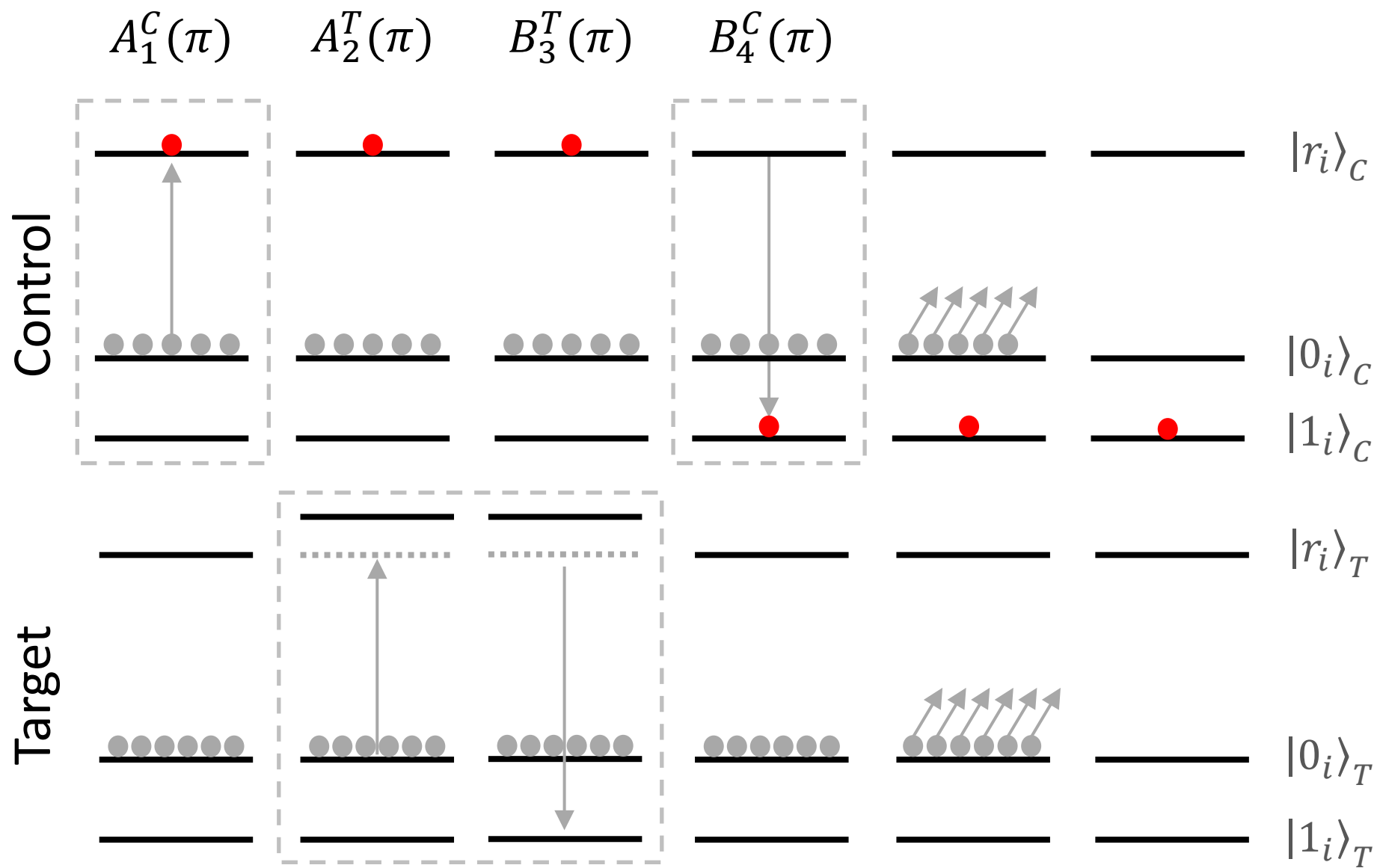
Target

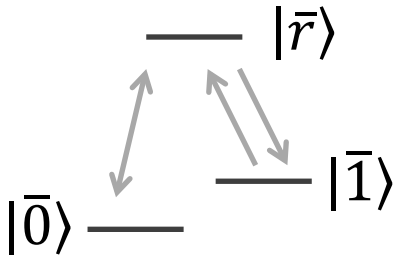
$|r_i\rangle_T$

$|0_i\rangle_T$

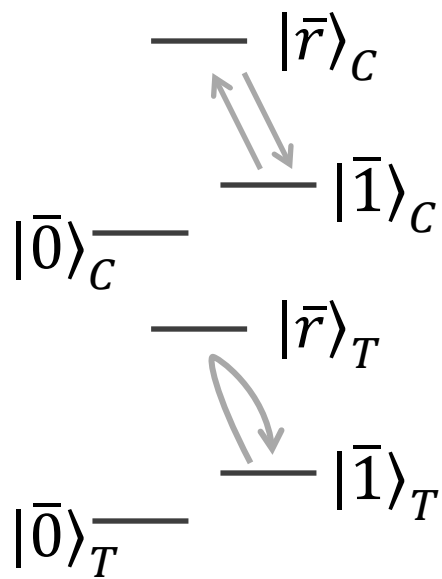
$|1_i\rangle_T$







$$B_1(\pi) A_2(\pi/2) B_3(\pi)$$



$$B_1^C(\pi)B_2^T(2\pi)B_3^C(\pi)$$