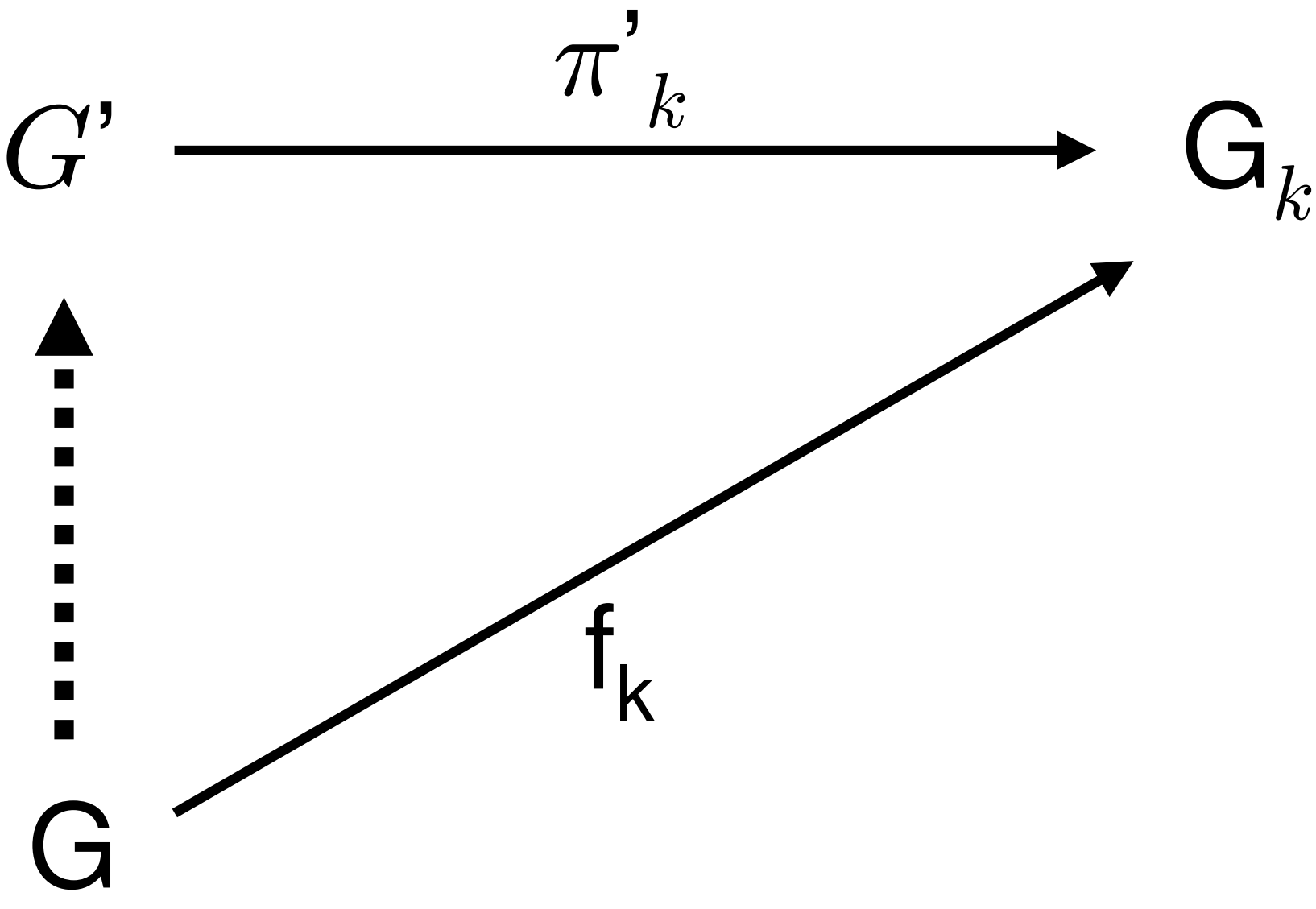
G'
π'_k
G_k
G
f_k