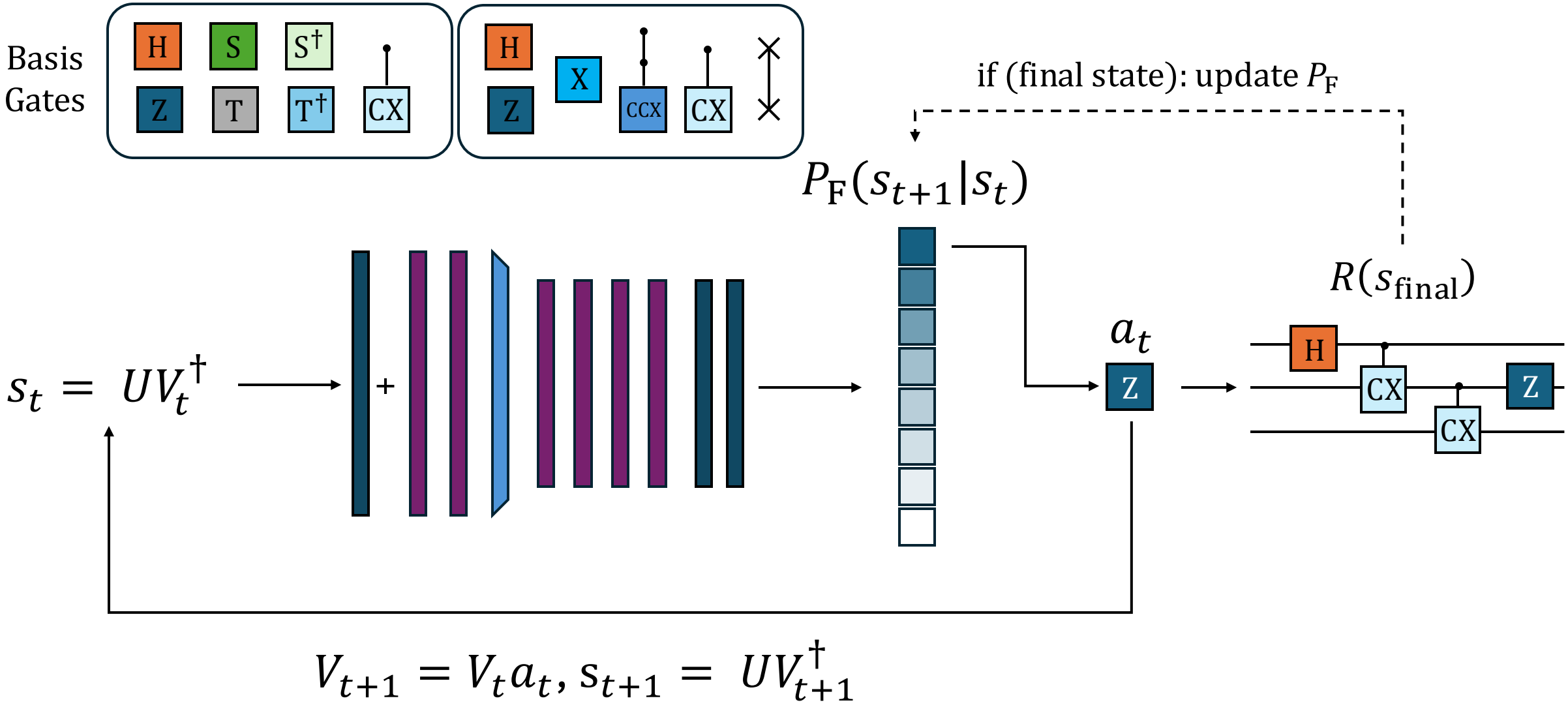
Basis Gates
H
S
S†
Z
T
T†
CX
H
X
Z
CCX
CX
if (final state): update P_F
$P_F(s_{t+1}|s_t)$
$R(s_{final})$
a_t
$s_t = UV_t^\dagger$
Z
H
CX
CX
Z
$V_{t+1} = V_t a_t, s_{t+1} = UV_{t+1}^\dagger$