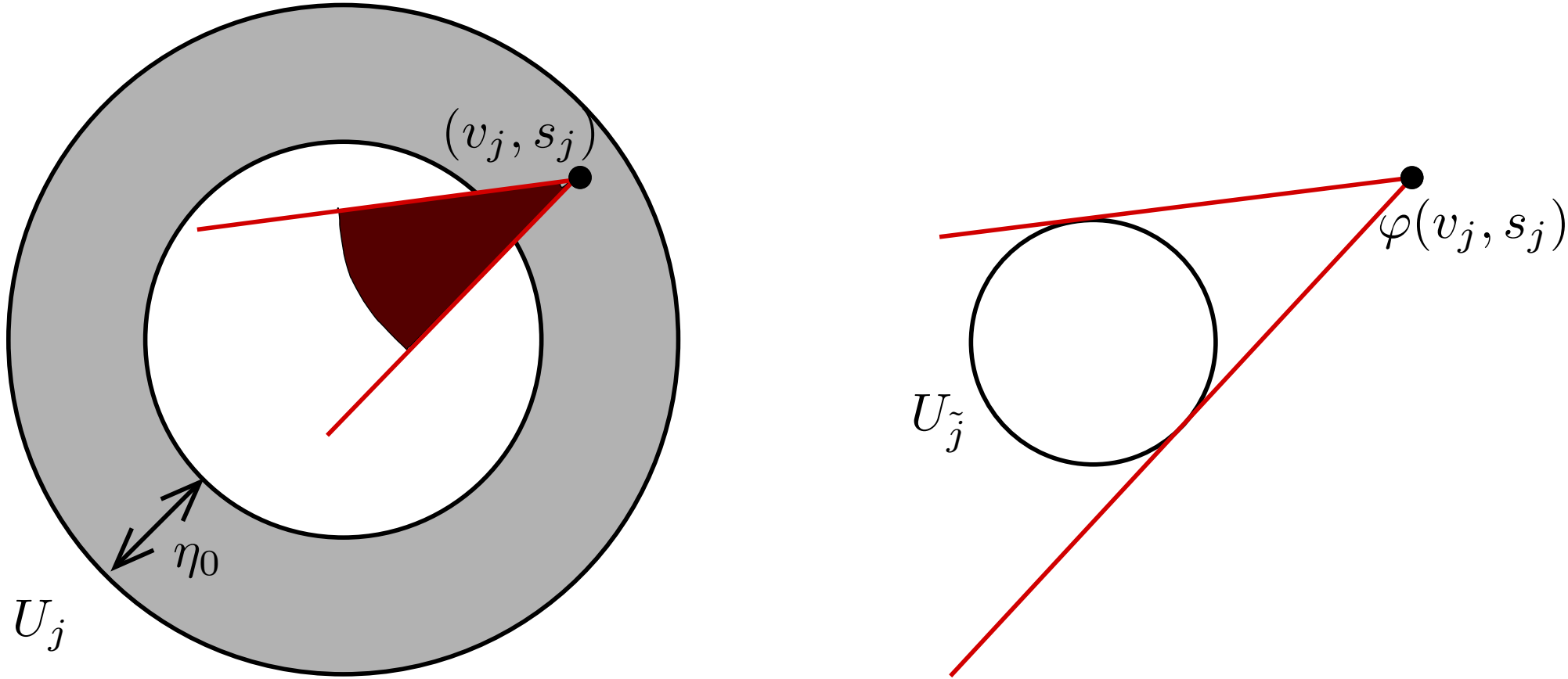
$(v_j, s_j)$
$\eta_0$
$U_j$
$\varphi(v_j, s_j)$
$U_{\tilde{j}}$