	Real Langevin	Complex Langevin
Fields	ϕ	$\phi_R + i\phi_I$
Action	$S[\phi]$	$S[\phi_R + i\phi_I]$
Langevin step	$\Delta\phi = K\Delta t + \eta(t)$	$\Delta\phi_R = K_R\Delta t + \eta_R(t)$ $\Delta\phi_I = K_I\Delta t + \eta_I(t)$
Drift	$K = -\dfrac{\delta S}{\delta\phi}$	$K_R = -\mathrm{Re}\left[\dfrac{\delta S[\phi]}{\delta\phi}\right]$ $K_I = -\mathrm{Im}\left[\dfrac{\delta S[\phi]}{\delta\phi}\right]$
Noise	$\langle\eta^2\rangle = 2\Delta t$	$\langle\eta_R^2\rangle = 2N_R\Delta t$ $\langle\eta_I^2\rangle = 2N_I\Delta t$ $N_R - N_I = 1$
	$\langle\eta\rangle = 0$	$\langle\eta_R\rangle = \langle\eta_I\rangle = 0$