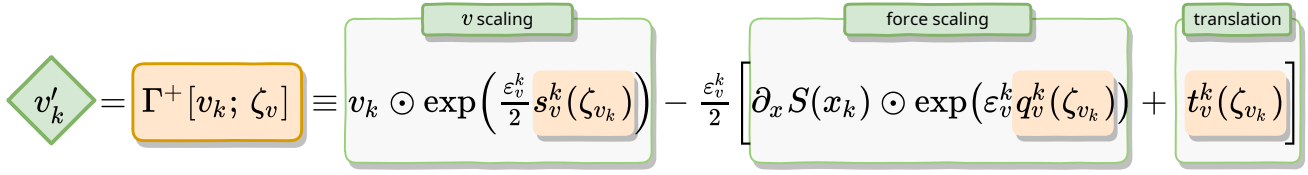
$v'_k = \Gamma^+[v_k;\, \zeta_v] \equiv v_k \odot \exp\left(\frac{\varepsilon_v^k}{2} s_v^k(\zeta_{v_k})\right) - \frac{\varepsilon_v^k}{2}\left[\partial_x S(x_k) \odot \exp\left(\varepsilon_v^k q_v^k(\zeta_{v_k})\right) + t_v^k(\zeta_{v_k})\right]$
v scaling
force scaling
translation
$x'_k = m^k \odot x_k + \bar{m}^k \odot \Lambda^+[\bar{x}_k;\, \zeta_{\bar{x}}] \equiv x_k \odot \exp\left(\varepsilon_x^k s_x^k(\zeta_{x_k})\right) + \varepsilon_x^k\left[v'_k \odot \exp\left(\varepsilon_x^k q_x^k(\zeta_{x_k})\right) + t_x^k(\zeta_{x_k})\right]$
x scaling
v scaling
translation