



$$\chi$$
update:
 $(d = +)$

$$x_k'' = \Lambda^+(x_k; \zeta_{v_k}) \equiv x_k \odot \exp\left(\varepsilon_x^k s_x^k(\zeta_{x_k})\right) + \varepsilon_x^k \left[v_k' \odot \exp\left(\varepsilon_x^k q_x^k(\zeta_{x_k})\right) + t_x^k(\zeta_{x_k})\right]$$

$$\zeta_{x_k} = \left[\bar{m}^k \odot x_k, v_k \right]$$

(input) $\xi_0 \to \xi_1 \to \cdots \to \xi_k \to \xi_{k+1} \to \cdots \to \xi_{N_{\rm LF}} \equiv \xi''$ (proposal)