**Gaussian posterior** conditioning training settings estimated posterior likelihood prior  $y \sim \mathcal{N}(\mu_y, 1)$   $\mu_y \sim \mathcal{N}(4, 1)$  $p(\mu_y \mid y) = \mathcal{N}(\mu_{\text{post}} = \kappa_r, \sigma_{\text{post}}^2 = \Delta_T)$ mean bias input output exact  $\kappa_r$  — activity along readout variance bias chaotic variance  $ec{\mu}_{m{y}}$ rank-1 RNN  $\mu_{\mathrm{post}}$  $z_1$ B 2.00 1.75 3.0 Ø 2 Ø 2 1.00 2.5 0.75 0.50 - 2.0 0.25  $M_m$  $M_m$  $M_n$  $M_n$  $z_1$  $z_2$  $\kappa_r(t)$ x(t) x(t) 100 200 300 400 500 100 200 300 400 500

t (ms)

t (ms)