Process change:
$$\underbrace{\mathbf{d} \begin{bmatrix} \text{eta1} \\ \text{eta2} \end{bmatrix} (t)}_{\mathbf{d} \boldsymbol{\eta}(t)} = \underbrace{\begin{pmatrix} \begin{bmatrix} -1 & 0 \\ 0 & -1 \end{bmatrix} \begin{bmatrix} \text{eta1} \\ \text{eta2} \end{bmatrix} (t)}_{\mathbf{A}} + \underbrace{\begin{pmatrix} \begin{bmatrix} 0 \\ 0 \end{bmatrix} \end{bmatrix}}_{\mathbf{b}} dt + \underbrace{\left\{ \begin{bmatrix} 1 & 0 \\ 1 & 0 \end{bmatrix} \right\}}_{\mathbf{G}} \underbrace{\mathbf{d} \begin{bmatrix} W_1 \\ W_2 \end{bmatrix} (t)}_{\mathbf{d} \mathbf{W}(t)}$$
Observations:
$$\begin{bmatrix} Y1 \\ Y2 \end{bmatrix} (t) = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} \begin{bmatrix} \text{eta1} \\ \text{eta2} \end{bmatrix} (t) + \begin{bmatrix} \text{mm_Y1} \\ \text{mm_Y2} \end{bmatrix} + \begin{bmatrix} 0.1 & 0 \\ 0 & 0.1 \end{bmatrix} \begin{bmatrix} \epsilon_1 \\ \epsilon_2 \end{bmatrix} (t)$$

Process

$$\mathbf{Y}(t)$$
 $\hat{\mathbf{\Lambda}}$ $\hat{oldsymbol{\eta}}(t)$ $\hat{oldsymbol{ au}}$ $\hat{oldsymbol{\epsilon}}$

Observation

Latent noise per time step:
$$\Delta \big[W_{j \in [1,2]} \big] (t-u) \sim \mathrm{N}(0,t-u) \qquad \begin{array}{c} \mathrm{Observation} \\ \mathrm{noise} \end{array} \qquad \left[\epsilon_{j \in [1,2]} \right] (t) \sim \mathrm{N}(0,1)$$