

Also, we assume
$$\beta_{\theta}(x^{(t+1)}|x^{(t)}) \sim \mathcal{N}(x^{(t+1)}; f_{n}(x^{(t)}, \theta))$$

$$f_{\Sigma}(x^{(t)}, \theta))$$

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$$f_{\Sigma}(x^{(t+1)}|x^{(t+1)}|x^{(t+1)}) \cdot d_{\Sigma}(x^{(t+1)}|x^{(t)})$$

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