

 $p_{oldsymbol{\phi}(\hat{\mathbf{x}},\hat{\mathbf{y}})}(oldsymbol{x}|oldsymbol{y}) \sim oldsymbol{x} = oldsymbol{f}_{oldsymbol{y},oldsymbol{\phi}(\hat{\mathbf{x}},\hat{\mathbf{y}})}^{-1}(oldsymbol{z})$

