



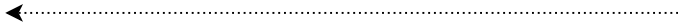
$\hat{x}_0$  denotes  
the clean state



$x_{t^*}$  is the starting point of  
the DBP reverse process



$x_T$  denotes the pure  
Gaussian noise state

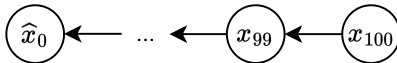


Full reverse process recovers  $x_0$  from  $x_T$

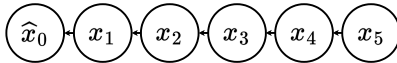


DBP recovers  $x_0$  from  $x_{t^*}$   
(first 10% of full reverse process)

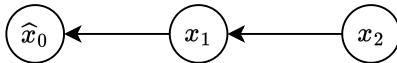
$T = 1000$   
 $t^* = 100$



$T = 50$   
 $t^* = 5$



$T = 20$   
 $t^* = 2$



$x_{t^*}$  remains to be  
 $0.95x_0 + 0.32\epsilon$



Smaller  $T$  is  
adopted to  
speed up the  
reverse  
process