

Circle attractor  $\beta = 20$

1)  $\mathcal{L} = \text{Equality loss on current ensemble} + \text{integral loss (regularization)}$

Doesn't work. Melts into oblivion.

2)  $\mathcal{L} = \text{Equality loss on current ensemble}$

Doesn't work. Melts into oblivion

3)  $\mathcal{L} = \text{Equality loss on current ensemble} + \text{symmetry loss} + \lambda \text{ integral loss}$

Beautiful solution but doesn't stabilize!

4)  $\mathcal{L} = \text{Equality loss on current ensemble} + \frac{0.001}{N} \sum_{x_i \in \mathcal{C}_i} p(x_i) + \lambda \text{ integral loss}$

Not perfect solution but does stabilize.

5)  $\mathcal{L} = \text{Equality on domain pts} + \lambda \text{ integral loss}$







