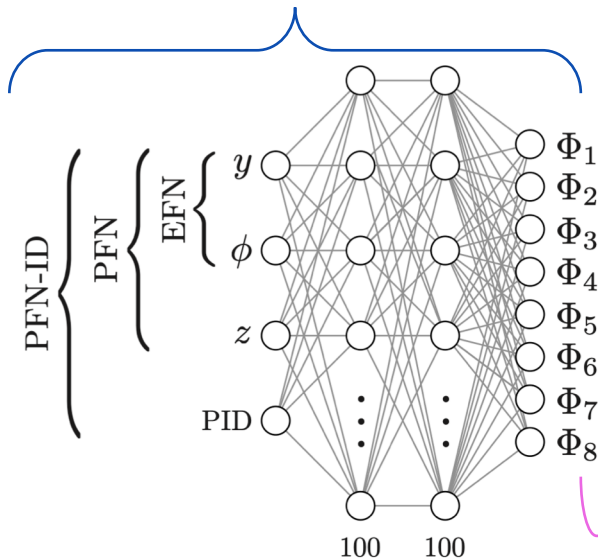
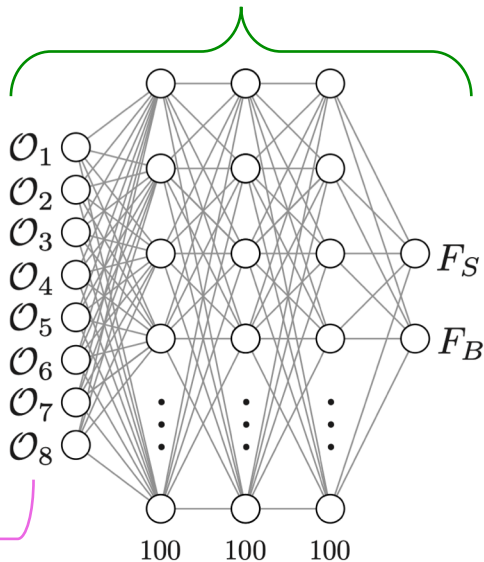


Learned per-particle set representation  $\Phi$

Supervised classifier  $F$



(a)



(b)

Permutation symmetric combination  $\mathcal{O}$

$$\mathcal{O}_a = \sum_i \Phi_a(y_i, \phi_i, z_i, \text{PID}_i)$$