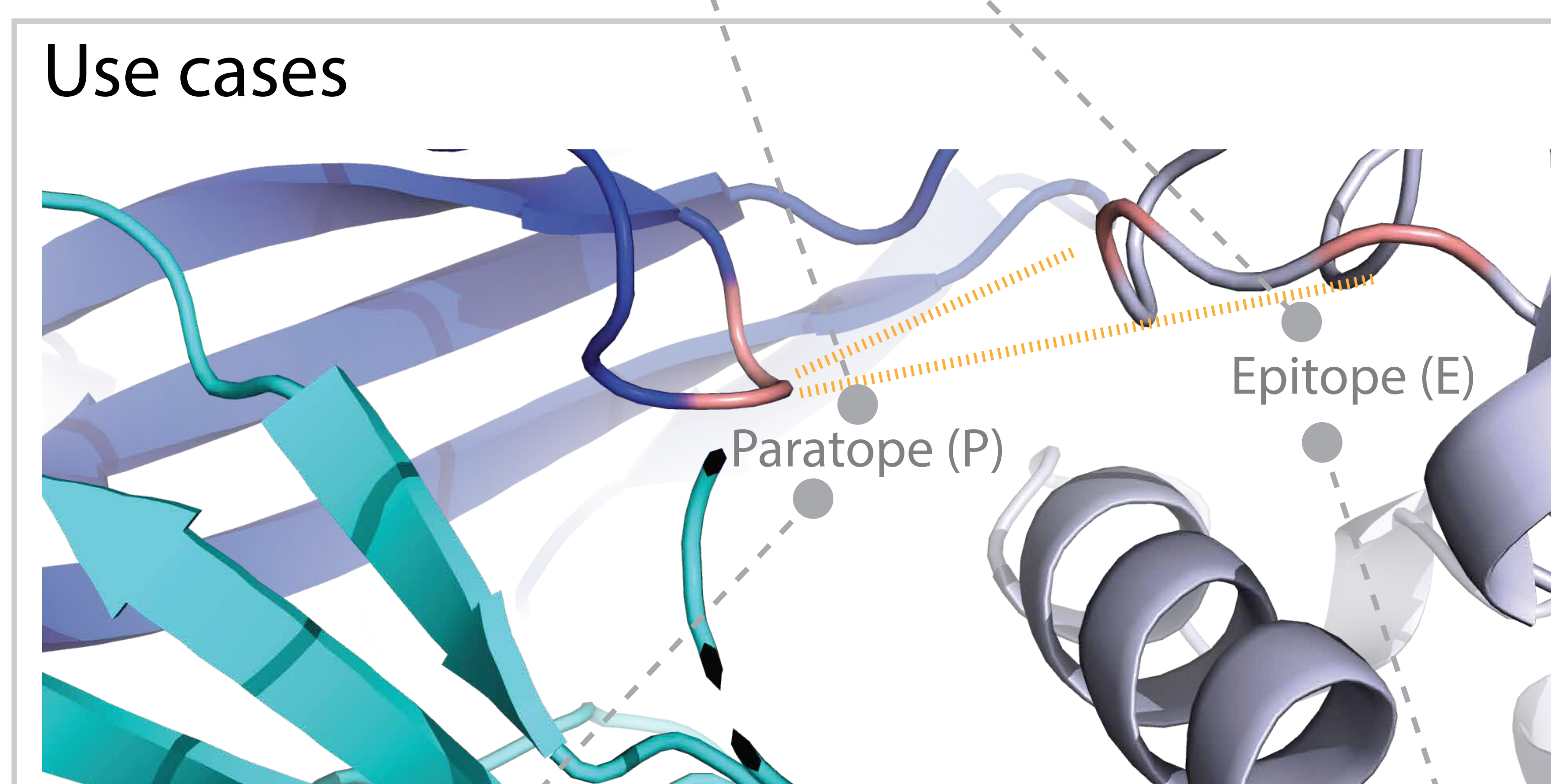
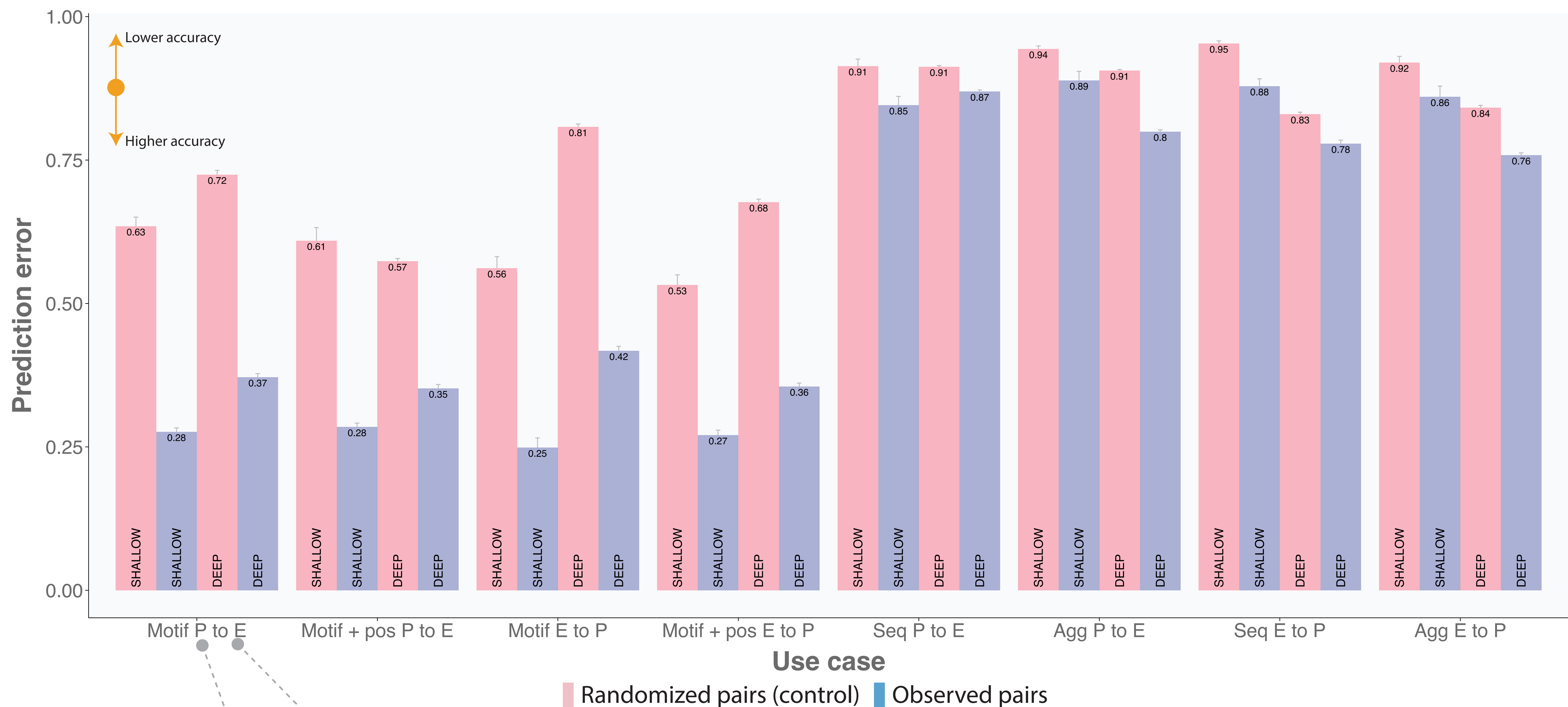


Prediction of paratope-epitope interaction at motif and sequence level



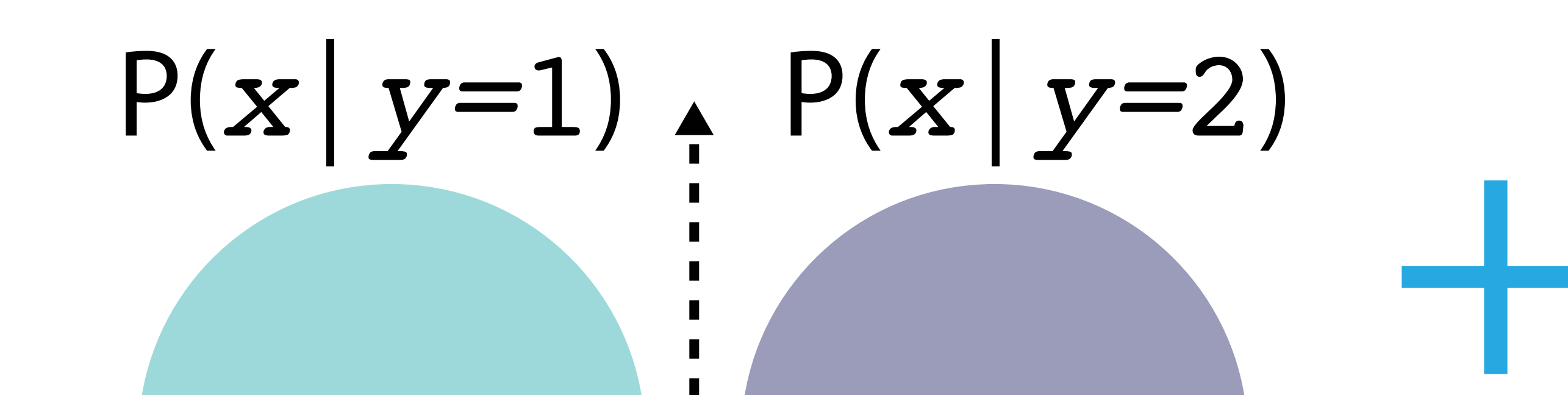
Interaction motif (Motif):
 $XXX, X-X$
 Interaction motif + position (motif + pos):
 $X1X2X3, X1-2X3$
 Sequence (Seq):
 GKS, VG
 Aggregate (Agg):
 $GKS, V-G$

Interaction motif

Interaction motif

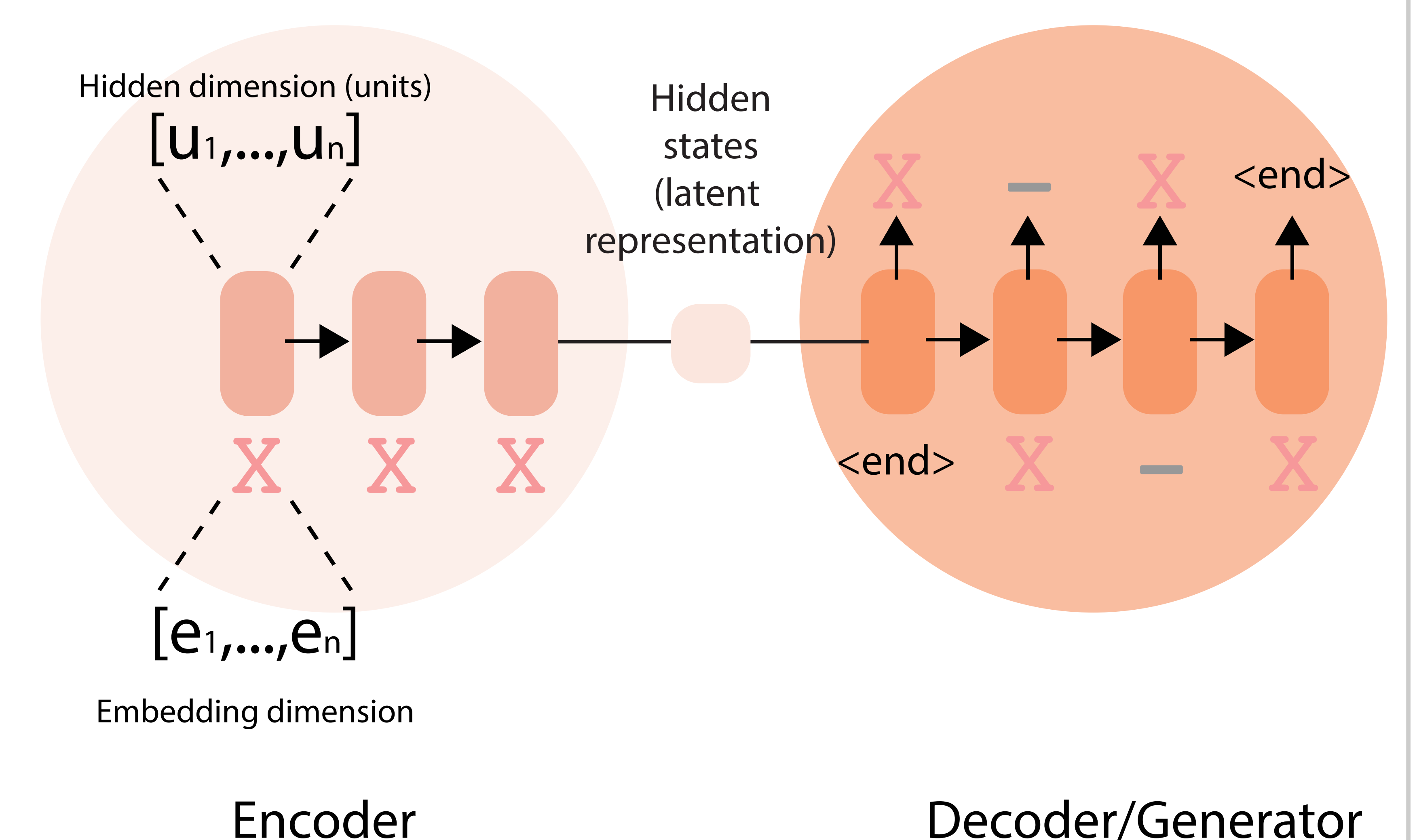
Machine learning models

Shallow learning



Shallow : conditional probability + prior

Deep learning



Neural Machine Translation (NMT)