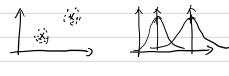
March 9,10 Recitation

- Prob D: Christer N points into M groups and determine the point distribution of each group
- Prob (2): Cluster N ChIP-seq reads into M binding events and determine the read incribution of each event
- Prob 3: Cluster N binding sequences into M groups by where the motif storts and determine the PWM of motif and background



We don't know either Zor O



Seg): BBMMMMBB

Seg2: BBBMMMB

⇒ We iteratively solve for (the discribution of) Z and the maximum -likelyhood estimate of O (p(x, ₹))

E step: use 0^{t-1} to calculate $P(Z|X;0^{t-1})$

M step: Find $\theta^t = \operatorname{argmax} E[P(x, Z; \theta)]$, where E is over $P(Z|X; \theta^{t-1})$

⇒ Go to letture notes to review motif discovery in detail