FYSS429/9929, APRIC 26, 2023 RBM one hidden lay NISIble Lager G = { W, b, c } X = {x, x, -, x,} h = { h, he -- har} P(x, h; 0) P(x, 4, 6) we are in terested in the marginal-probabilities $p(x;\epsilon) = \tilde{p}(x;\epsilon)$ $= \sum_{h}^{n} \mathcal{P}(x, h; \epsilon)$ $Z(e) = \sum_{i} \tilde{p}(x, 4; e)$

$$\frac{-\beta E(x,h;e)}{\beta} = e$$

$$\beta = 1$$

$$manginal distribution fall
$$p(1;e) \propto \sum p(x,h;e)$$

$$we much also conditional probabilities
$$p(x|h), p(h|x)$$

$$Maximizing p(x,h;e) is$$

$$done ly maximizing$$

$$\hat{e} = ang max log p(x;e)$$

$$\hat{e} \in R^{n}$$

$$= Ve log p(x;e) = Ve E(e)$$

$$\frac{Ve log E(e)}{E(e)}$$$$$$