



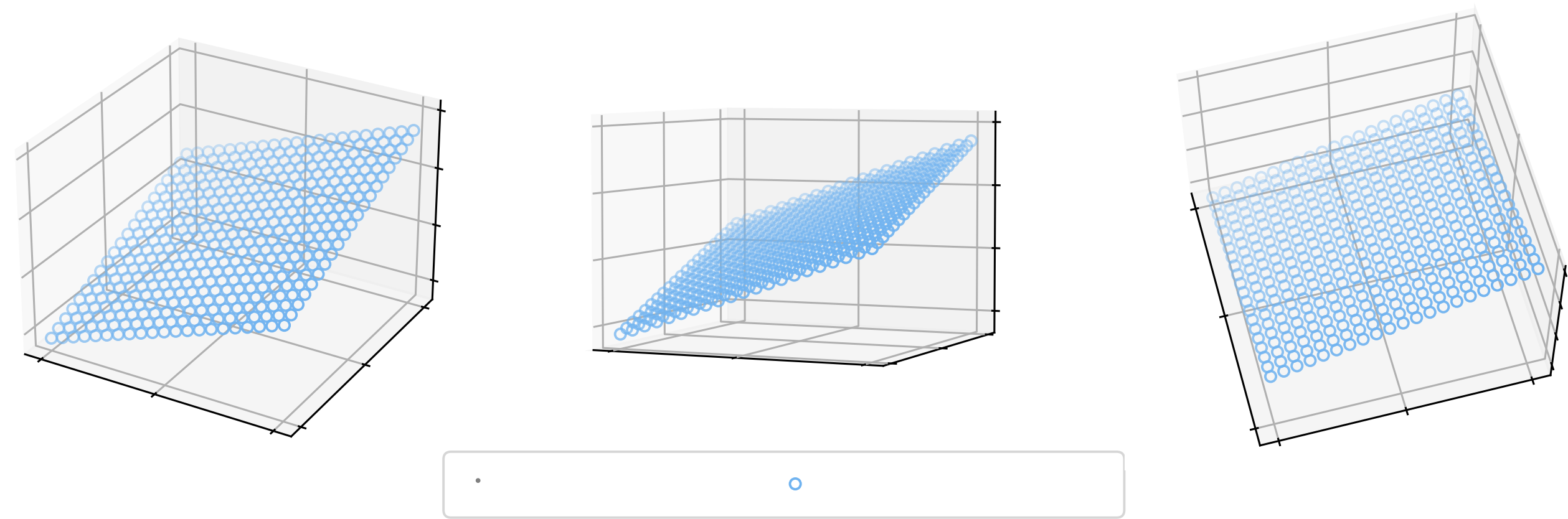
FgdWZb

- &>AL ~, S%o p>%ALL~ sHL~ TLHs } >~¥ E sHL ¥Y%o H H">%o%o5pL B>Y%o, N>AL ~, S%o B, Y HAL pY } >~ L^, ^
- † LHL^>"LH&L>~s-n † & S%o HS%o sAY"LH } >Bps-L L>~s-n ..>Hm} E pL^L B s~"%B, >A, ^> CL ¥" ^>s-> } , HL Y%o n "pLs , B> pY } >~ nL~L^>"LH H">%o%o

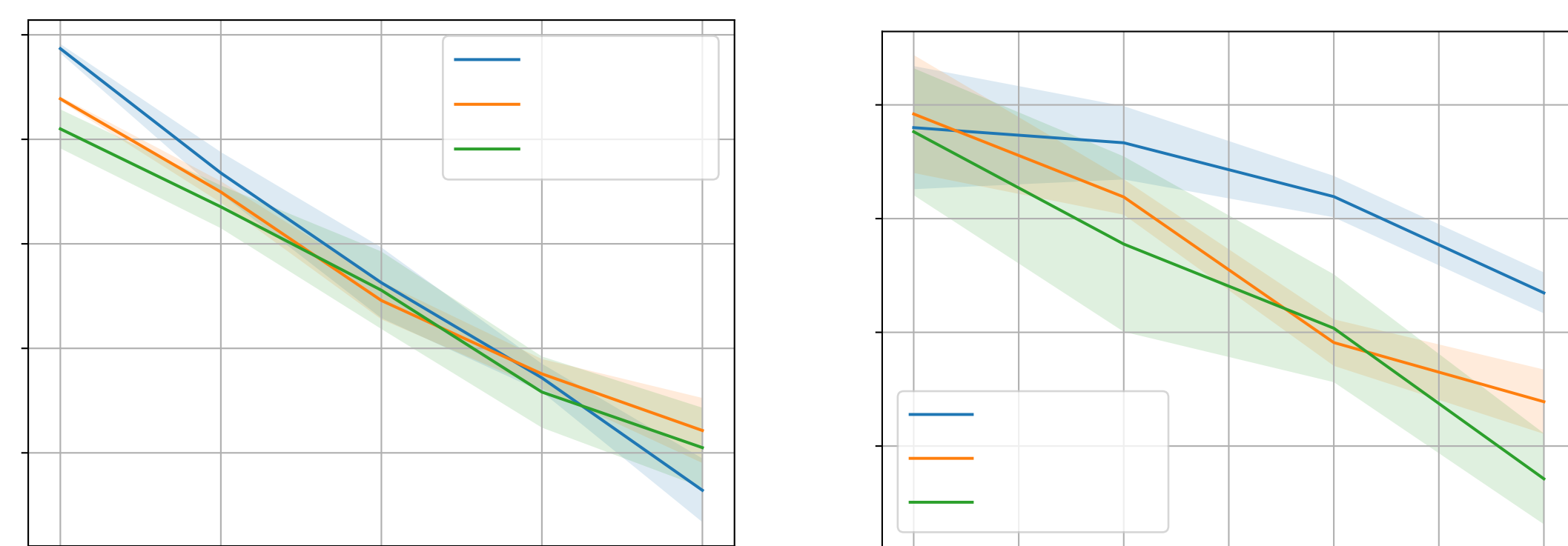
ž , E H, L%o>AL ~, S%o>QLB' † & nL~L^>š> , ~

E WhZgkVi ^dc

&>AL ~, S%o s-L>^ ¥ HLn^>HL%b & ..L^N^ } >~BL A¥ ^LHÝB s-n "pL "L%o>BBY^>B¥, N"pL n, A> } , HL



† snY^L &s-L>^ ^Ln^L%o ~, ~ "pL n, A> } , HL >BBY^>B¥ Y~HL^ >AL ~, S%o 5E, B s~"%o^>s-LH "pL n, A> } , HL E sp† LH^ ĉn



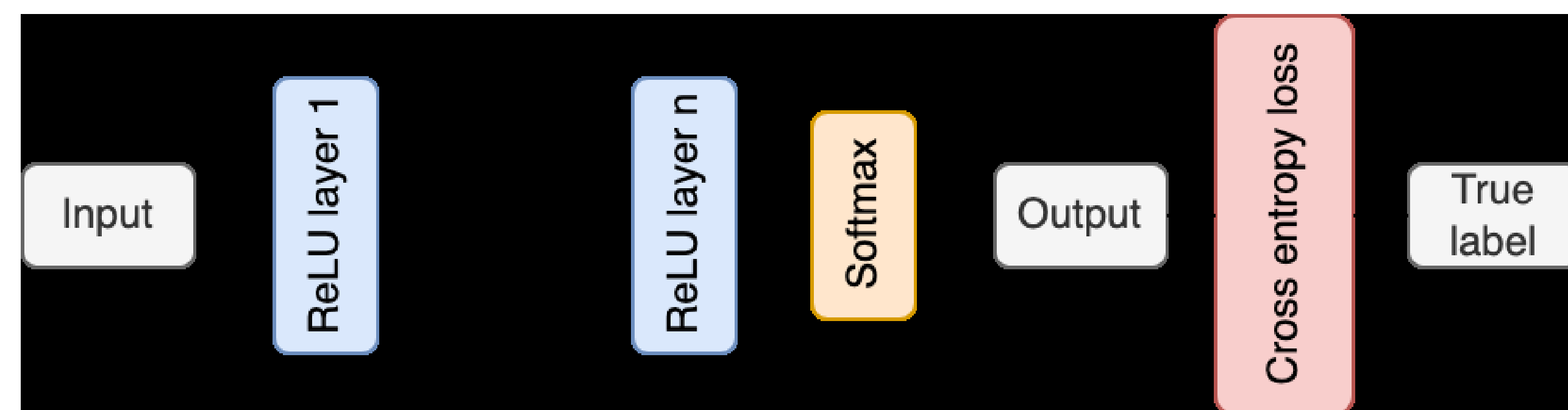
> B s~"

A B s~"

† snY^L 5L%o>BBY^>B¥, Nn, A> } , HL A¥ HQL^L~" † &>n, ^sp} %o Y~HL^ HQL^L~" >AL L^, ^>"L%o

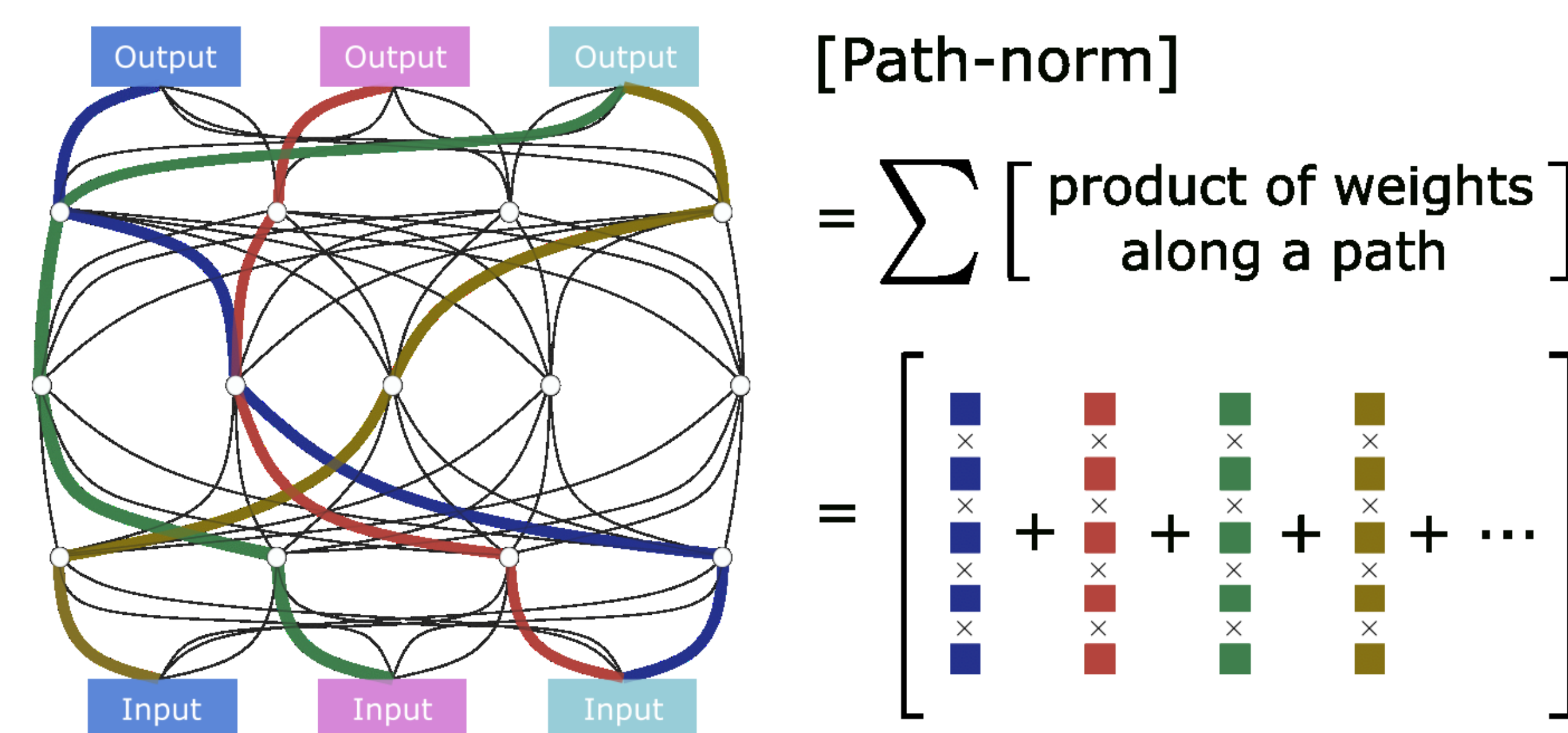
I ] Zdgzi X VcVanh^

† , ^ } Y > , ~



† snY^L : L B, ~%o L^> B>%o B> , ~">%o>~H 2L&7 ~L"E, ^y%o

) L"p, H



† snY^L 5pS%o>..L^ Y%o 2L&7 ~L"E, ^y >~H..>"p ~, ^ } .., ¥N^ > B>%o%YHY, N"pL nL~L^>š> , ~L^, ^

~ , ~%o L^ >~ † & .., BL%o E sp > L >¥L^ ~LY^> ~L"E, ^y f : R^d x W -> R^d >%o%o n, A> } , HL 5pL~ S%o>"p ~, ^ } s-B^L>%o%o } , %o.., ¥~, } s> ¥

f(; (t)) pnp = O(t^{L+1} E^{(L+1)/2})

E pL^L t R HL~, "L%o pL ~Y} AL^ , NB, } } Y~B> , ~ ^, Y~H%o~H E HL~, "L%o pL , B> " ^>s-s-n } L

"NE L B, ~%o L^ >nL~L^ sHLBL~" ^>šLH>n, ^sp} E L p>CL

f(; (t)) pnp = O(e^{C t(L+1)} E^{(L+1)/2})

E pL^L C S%o B, ~%o~" s-HL..L~HL~" , Nt, L, E

~ , ~%o L^ >~¥ HS%o sAY"LH HLBL~" ^>šLH L^>~s-n >n, ^sp} E sp >~LY^> ~L"E, ^y E sp >~>A s^>¥ %oYB^Y^L N^ >B>%o B> , ~">%o, NC B>%o%o Y~HL^ >AL ~, S%o>~HB, %o L~" ^, ..¥ , %o pL~ G(W) = E\_X \prod\_{i=1}^C \prod\_{k=1}^N \frac{n\_k}{n} / Pr\_{\mu}(Y = i|X) - Pr\_k(Y = i|X) / "NE L Y%o > 2L&7 ~L"E, ^y >%o Y^ } , HL s- "pL † &">%o "pL~ = f(; (t)) pnp

9dcigWj i ^dch

- 5pL T^%o†Y>~ "> CL %YHY "p>" >~¥|L%o pL š ..>B' , N>AL ~, S%o, ~† &
- ~ >~> ¥%o%o ~ ..>"p ~, ^ } n^, E "p Y~HL^ HS%o sAY"LH HLBL~" ^>šLH %o ~n
- ~ s-L>^ Y...L^ A, Y~H, ~ "pL nL~L^>š> , ~L^, ^ , N "pL n, A> } , HL Y~HL^ >AL ~, S%o E pSp S%o B, ~%o L~" E sp "pL L} ..sB> ^L%o "%o

: hXj hh^dc

- " } .., Cs-n "pL, ^L B> A, Y~H%o L .., CL > s-L>^ Y...L^ A, Y~HN^ "pL nL~L^>š> , ~L^, ^ >~H "pL A, Y~H S%B, ~%o L~" E sp ~Y} L^B> ^L%o "%o ž , E LCL^ "pL Y...L^ A, Y~HB>~ AL , , %o , ~L B>~ .., CL > , E L^ A, Y~H, ^ š .., CL "pL Y...L^ A, Y~H A¥ } >ys-n } , ^L^L%o sB CL >%o } .., ~%o
- ) , ^L B, } ..LpL~%o L L^ š L~"%o, Y^ L L^ š L~"%o %o >%o >~Y} AL^ , NB s~"%o E pSp >...š %o, B, %o%o † & "N^Y^L ^L%o^Bp E L...> " , %YHY "pL š ..>B' , N>AL ~, S%o E sp > ^nL^ ~Y} AL^ , NB s~"%o L n >%o B, %o HL CL † &