Dévara 06/28/2021: Epirnon 5: STP: Gow XER TOLE OI XTX ER KU X.XTER MXM Eivor outhorpion, $(X^T, X)' = X^T (X^T)' = X^T X$ oproins on X.X John Kon ouros orphecolros. (AB) T- BTAT A=A => A ouliterpriss. La de oupherpixòs piraras èxei par aproxisés i Siocifés mu ra i Siosiavisfaza eivar ava son midera (1510 Svarninghera non arrestaixair de Trompopeziràs 150 enfès). Dapayorzonoinon SYD: (X=U.I.VT) Lo Brita: Bojonagle 1 Siorfies par 1510 Siavio faza 700 XTX Do Brinon: O, osindes rou V Eivan Tou 1510S 1 avidence 201 XT.X. $0 = \exp \left(\frac{\delta_{1}}{\delta_{2}}\right) = \left(\frac{\delta_{2}}{\delta_{3}}\right) = \exp \left(\frac{\delta_{1}}{\delta_{2}}\right) = \exp \left(\frac{\delta_{2}}{\delta_{3}}\right) = \exp \left(\frac{\delta_{1}}{\delta_{2}}\right) = \exp \left(\frac{\delta_{2}}{\delta_{3}}\right) = \exp \left(\frac{\delta_{1}}{\delta_{2}}\right) = \exp \left(\frac{\delta_{2}}{\delta_{3}}\right) = \exp \left(\frac{\delta_{1}}{\delta_{3}}\right) = \exp \left(\frac{\delta_{2}}{\delta_{3}}\right) = \exp \left(\frac{\delta_{1}}{\delta_{3}}\right) = \exp$ TOU X^{T} , X. 30 Brita: Bojow. Bouties kon Biolionistroiza 700 XX kon or strites Tou U Givon , SIO SI ONÍO PARO TOU X.XT. 1) Pos Tra X = U.IX V xon on U,V civon ouzrospéphos -> rôze TO rank(E) fivor to idio he is rank(X). 3) Di 1816 Jourses trais sivan mandinis To SYD EXI (a) U, V Ser eiran (conadinoi) (4) O, Sia) avois thès long of Southis to X évan i sies -> Middes. AND ON 1510 THES TOUX X HOLD ON POIJES TOUR, STORYCHIN ZOU X'X Der èxel vonta va finaire que issossatari/issorpiès qua fin cerpaquirios niva ves Epiron 6: Com VEIRh for 3 Ve,..., In & poolitikai anatopotness fic $\langle \langle \gamma \gamma \rangle \rangle = 0 + 1 - 1 \dots n$

April za 31,..., is circu or to ordinas papelina our fajorneu our por Ou sivou Sain ou F. Ha w V On sportézareus safetiris orduadios ozalxeins ms sains du assi V= 11/4 # ... + 1 ~ 1/2 / 22. ... , le E.R. Toze # i = 4 ..., h exape <r, r> = < V, / L/1+... + / N Vn > 2/25 < r, r7= 11 V/2 =0 => 1=0/. Epivinn 7: $h_n = 4(h_{n-1}; \theta)$ In a ourain Trom heralaums $f(x; \theta) = tanh(\theta x) fra |\theta| < L.$ modogiore in who this horitins reputitions konsiderations how outsity as œ éver parais opilones. h2 = f(h1; 0) (1) h3= f(h2;0)= f(f(h1;0);0) $h_{n+1} = f^{(n)}(h_{\perp}; 0)$ Tôze $\left|h_{n+1}\right| = \left|f^{(n)}(h_1;\theta)\right|$ = tanh 0 hn-1 ~ |01/hn-1 ~ - - 10 1 m 1 m 20 ~ 101 2 - 1 m 2 m 20 touth x = x xovai or 0. Epiimm 8: 2=8. (i,j, k = 30,25. E-pisinm 3: rxc ~> r(1) x c(1) ~> r(e) x c(2) x f(z) ~> N neurons => Input con layer com layer FC layer

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Courner 10: Q-Learning:

Epison 11. Moia fédous of a donoinens obnyei et no apaies our aparosis esis;

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our respirar.

Epivitnon 12:

$$Q(x) = \frac{1}{2} x^{T}Ax - 6x$$

$$\Rightarrow Q(x) = \frac{1}{2} (x^{T}A + Ax) - 6$$

$$\Rightarrow X_{n+1} = X_{n} - x_{n} (\frac{1}{2}(x^{T}A + Ax) - 6).$$

· Action (t) = State (t+1) · Roward = -1 => a Sireru ferciscon · Acr exe vonta zo axastalija Gran I H Epirus EXE vonta cal Parpitoche ou: · Magker Kanas learning rate DLy &1 Tota: Q(2,3) + (1-4) Q(2,3) + y (R(2,3) + y · wex {Q(3,i)}) ← (1-y).64+y(0+1.80) + (1-y).64+80y ← 64+16y 0< y = 1 => 64 < 64+16y = 80 => 64 < Q(2,3) = 80 H from Swary Gridging Givas, ADINOV, n F9