1/2/

(V)

ABOUT TIME

The "Problem of The 2nd Law
Mored system (15th) > 0 Clownius
Torrayski 1997

O Why Original 2nd Lan?

(2) why does entropy increme dall? (why no Moxwell demons?)

(Brend 4 hutter) 2rd Lon? -> Plermodynamics

(Brend 4 hutter) -> Stud Merk

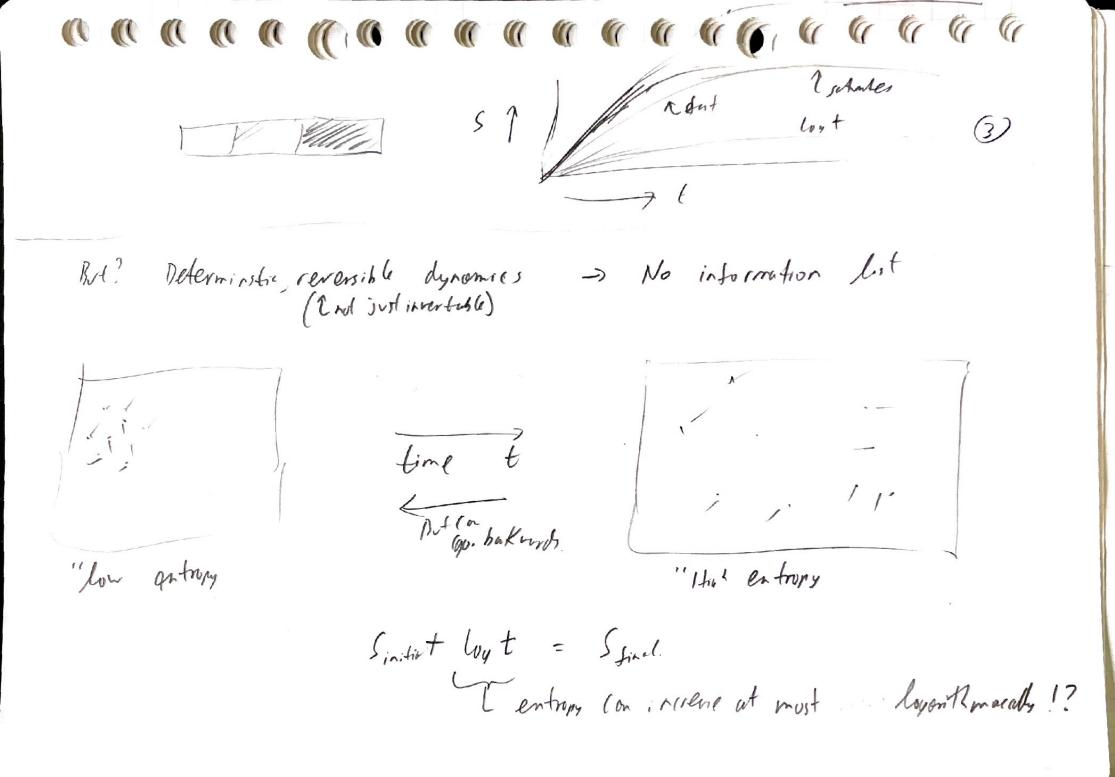
-> Stud Merk

-> Studentic Plermodynamics

BENKELEY 2023 HZER AMOUT TEME

Why does entry only incrows? (un oversue) why ro estative Moss well demons? Stockestic dynamics - Torid Markor chan detather stoken detathe $D(P_n||\pi) \geq D(P_{n+1}||\pi)$ (over 1 Thomas BAF = B.F nen- SFea

Bit Determinent, revenible du nour, internation were lost?

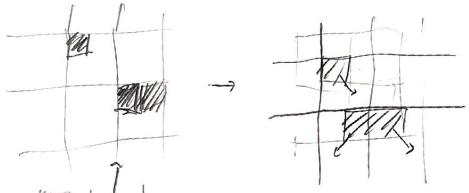


(4)

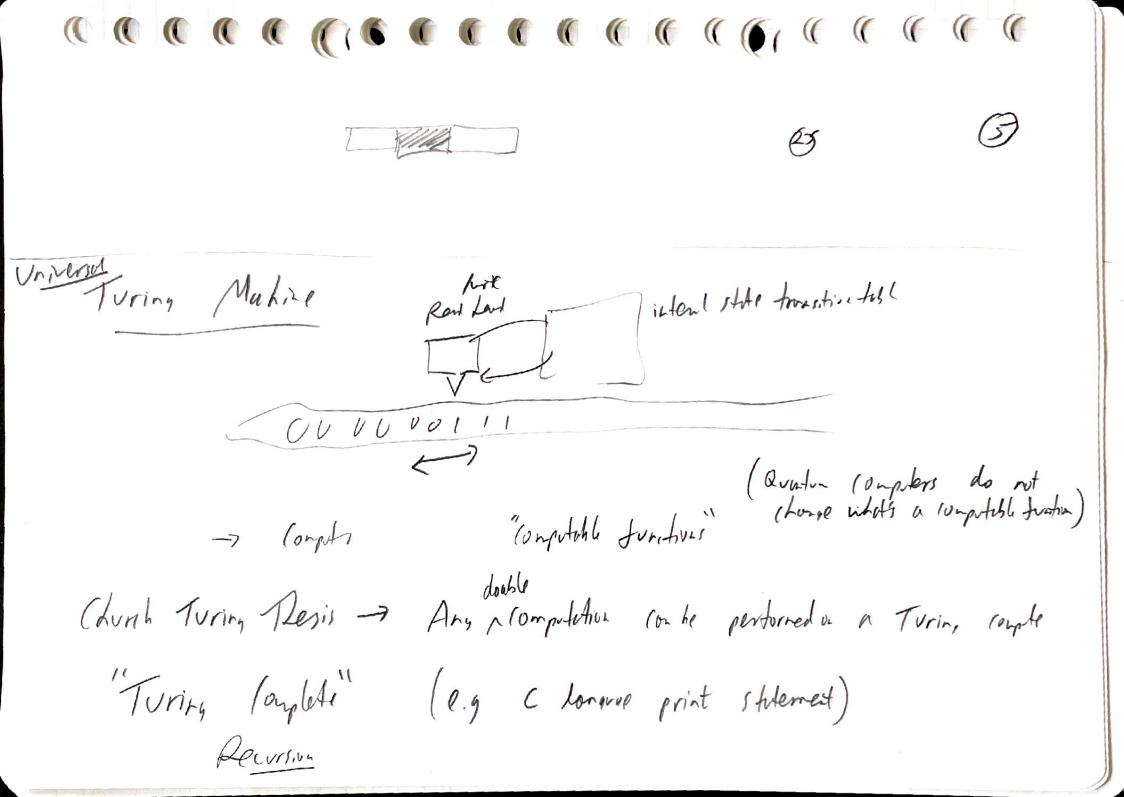
Soldier: Quela ? Chows?

No, -> Cellular Automota Gos. Determistic

Reversible Disrole time 4 Spore.



(Jra Reversible (A colling of 2 movin obtats describes (orit crete chotic stratue above)



Gerrollance et élécte

(6)

It dynamics is Turing (ouplete, Plan competentially in Jewihle to

-) See Steplan Wolfram "Computational Sandations of Qed Lan"

6 Who I (Entropy rout invente unless it's less than maximum)

time Problem Lon's et physics one bis reversal & Symmetrie) & 1) Why is entropy 200? (ine Permel Shoteton? 1 / You are here

Intreve a entropy dietales time's amon

=> Bultzmann Bruin Pondox

* (ortially CPT)

8

27, 28, 29

Post Hypothesis Don't Albert 2000

=> Brief History of Re univene.

=) Belowe Big Bogg was don Entrop! Why are we larded so there to But of Universe?

9

(3)

Lonot Physius (oztone Symmetries (=> Conserved quantities)

Ris Bons breaks Symmetries!

Time

Mother / Antimother.

(1 Lone?)

No rest frame

Why? Dunno.

BERKENSTEIN-HAWKING

Blak Hole! Gravity & antropo (so me l aren Released by (lunder moss, total attripe, incomes) Area = m2 x 87 (62) A (Koc) 10-25 M lexite 10-8 Kg Plankuxits mors 10-445 time K=(=6=+=1 1072 K temportre

10

other problem By Crush

31)

Heat deall of United Start Level of Start Lailibrium

Start deal of Colonies Start Level of the Start of the

Hankun rabotion, black holes enoquete

Har Inter temperatur

OI Plank May, Plank Temperatur

Souther the black hole, Little 1913