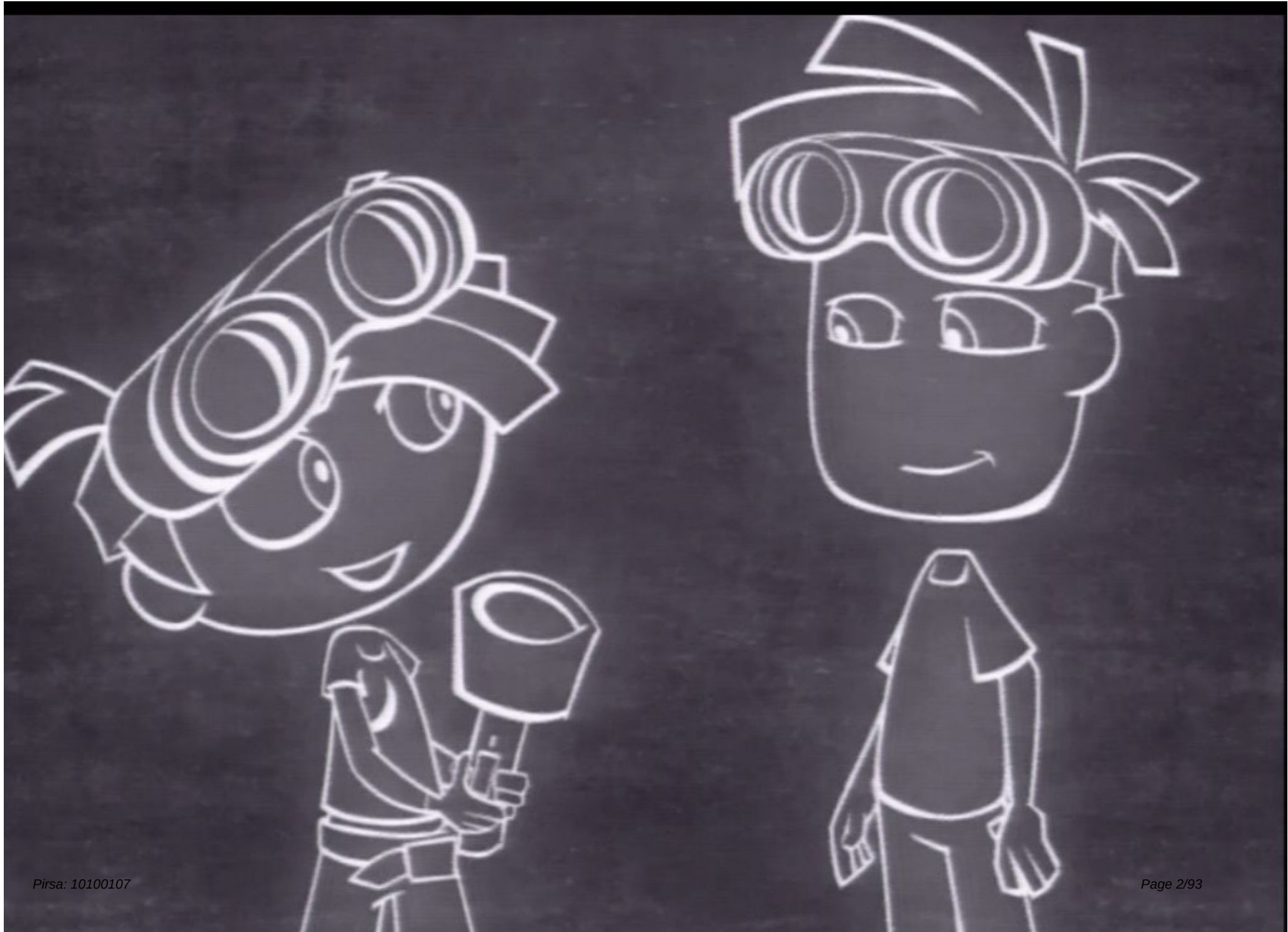


Title: Alice and Bob

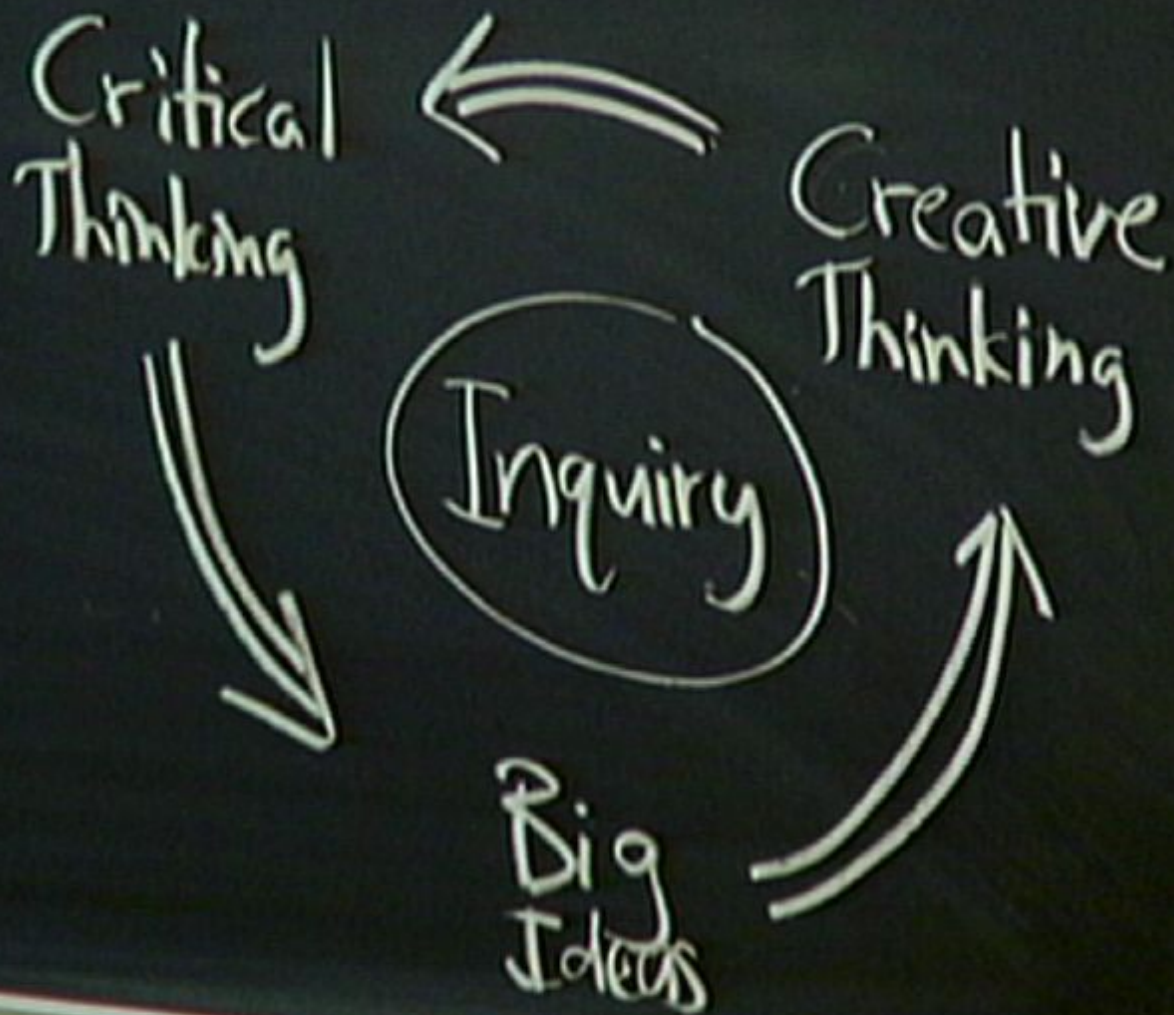
Date: Oct 22, 2010 01:15 PM

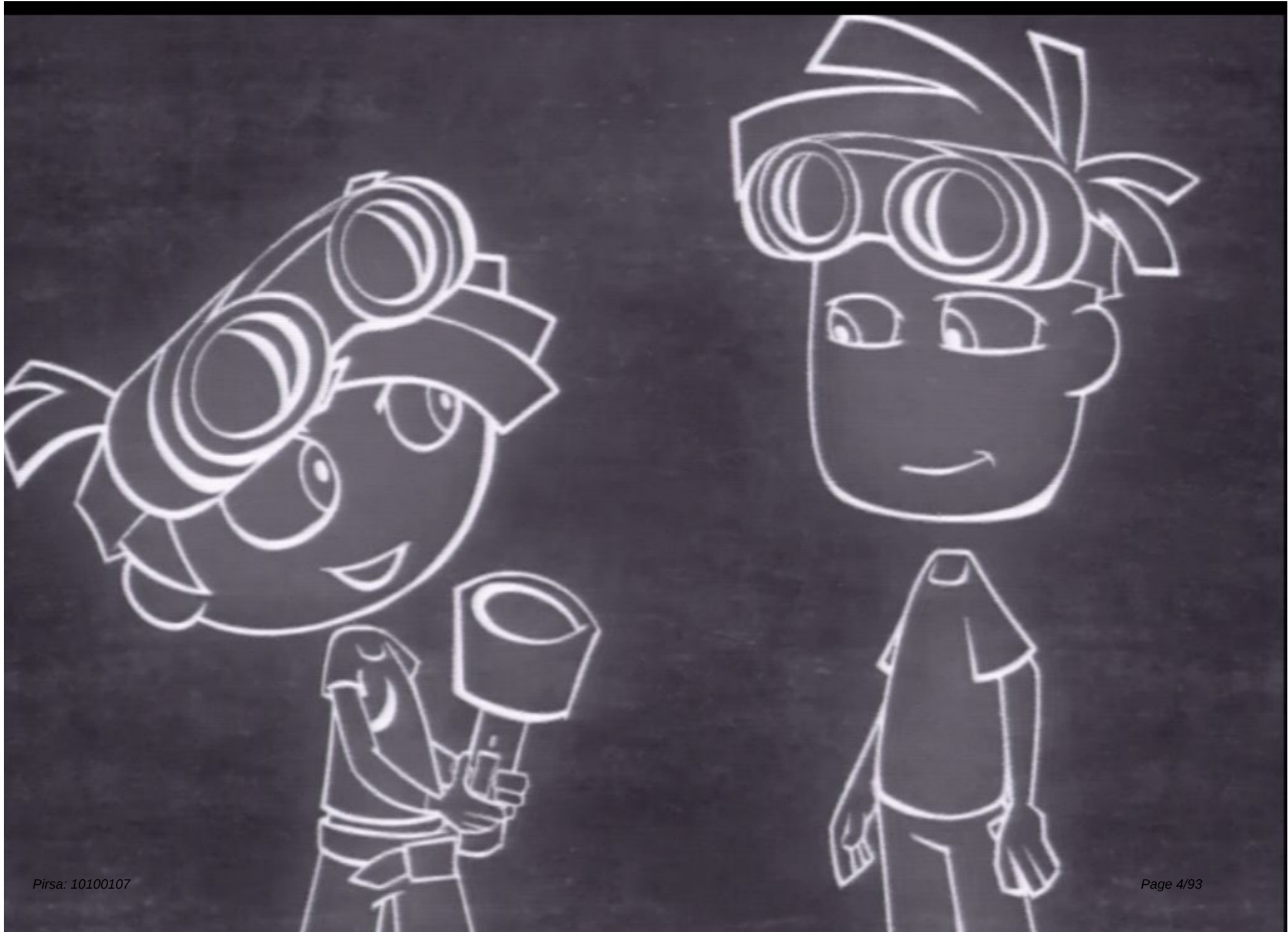
URL: <http://www.pirsa.org/10100107>

Abstract:



Are you ready to Question Reality?





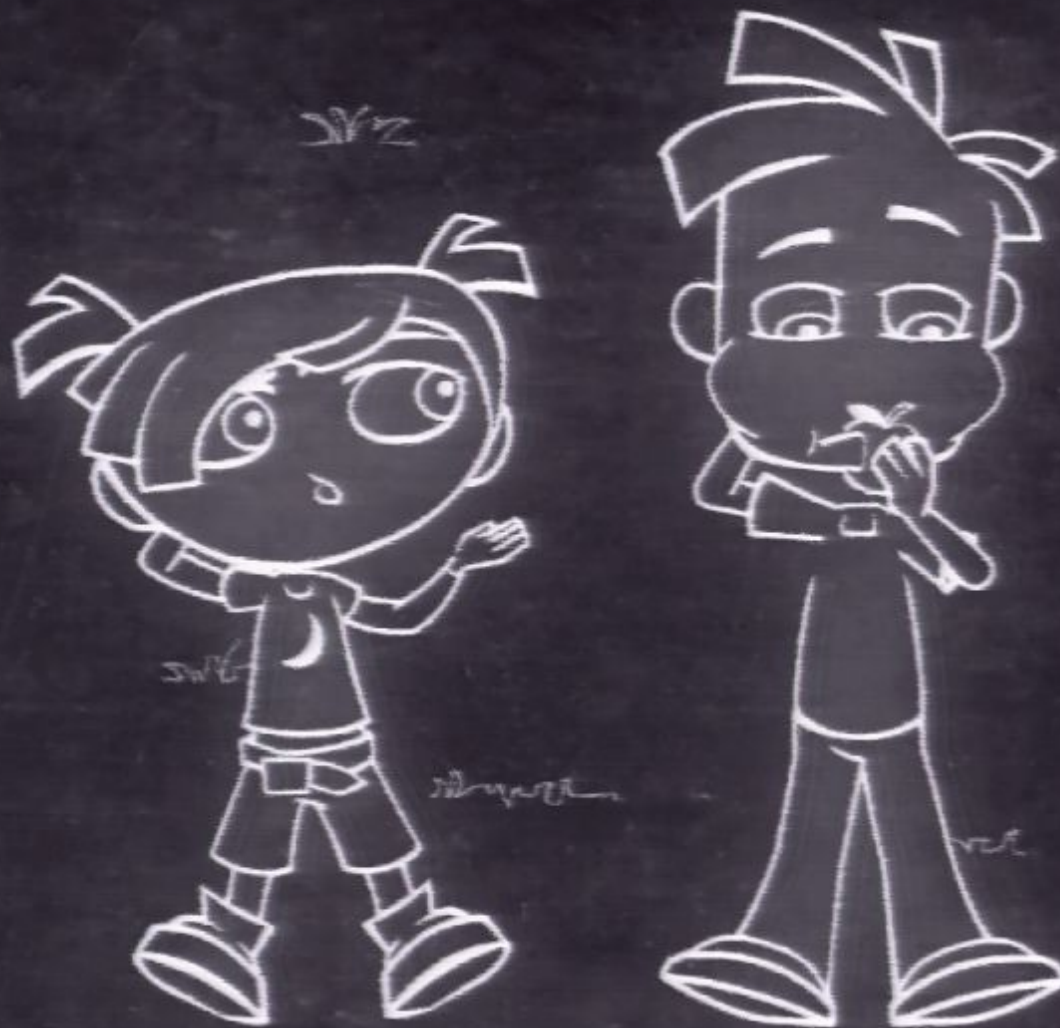
ALICE & Bob in

Wonderland



ALICE





① 2 models — equally good .

②

① 2 models — equally good ?

② accel. ground — how possible ?

① 2 models — equally good ?

pulled back in seat (accel.)

② accel. ground — how possible ?

① 2 models — equally good ?

pulled back in seat (accel.)

② accel. ground — how possible

straight line



① 2 models — equally good ?

pulled back in seat (accel.)

② accel. ground — how possible ?

straight line

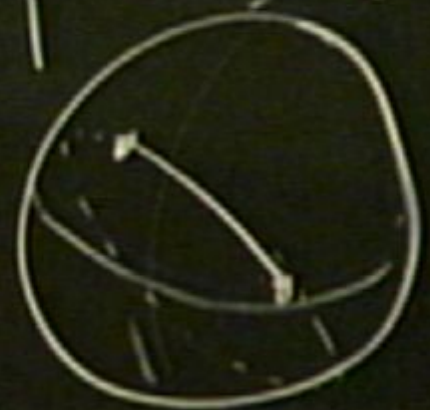


① 2 models — equally good ?

pulled back in seat (accel.)

② accel. ground — how possible ?

straight line



Do-able (Gr. 9)

① 2 models — equally good?

pulled back in seat (accel.)

② accel. ground — how possible?

straight line

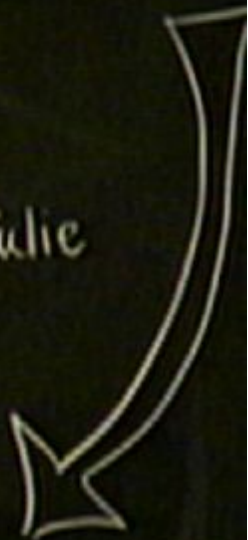


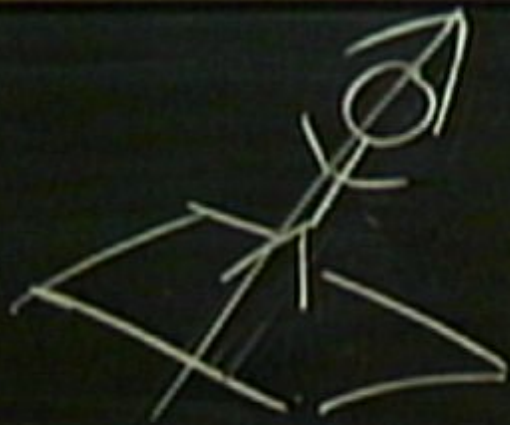


20 200km

Reimbursement Forms

- Driving
- Chris N.
- Return to Julie

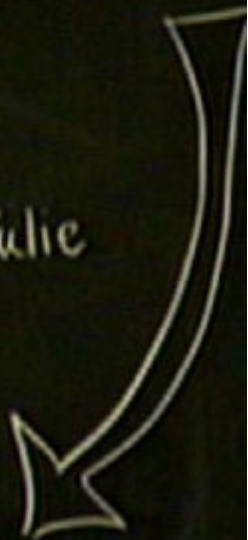


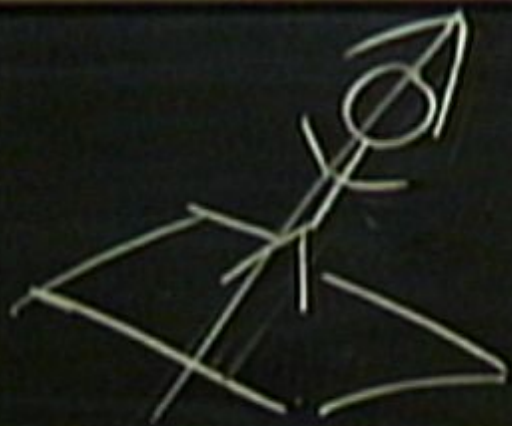


20 200km

Reimbursement Forms

- Driving
- Chris N.
- Return to Julie

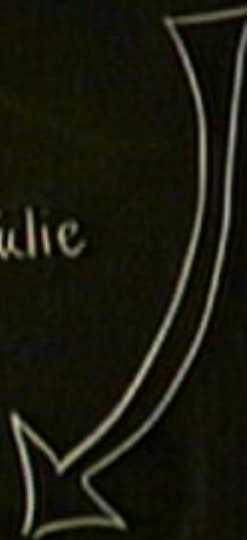


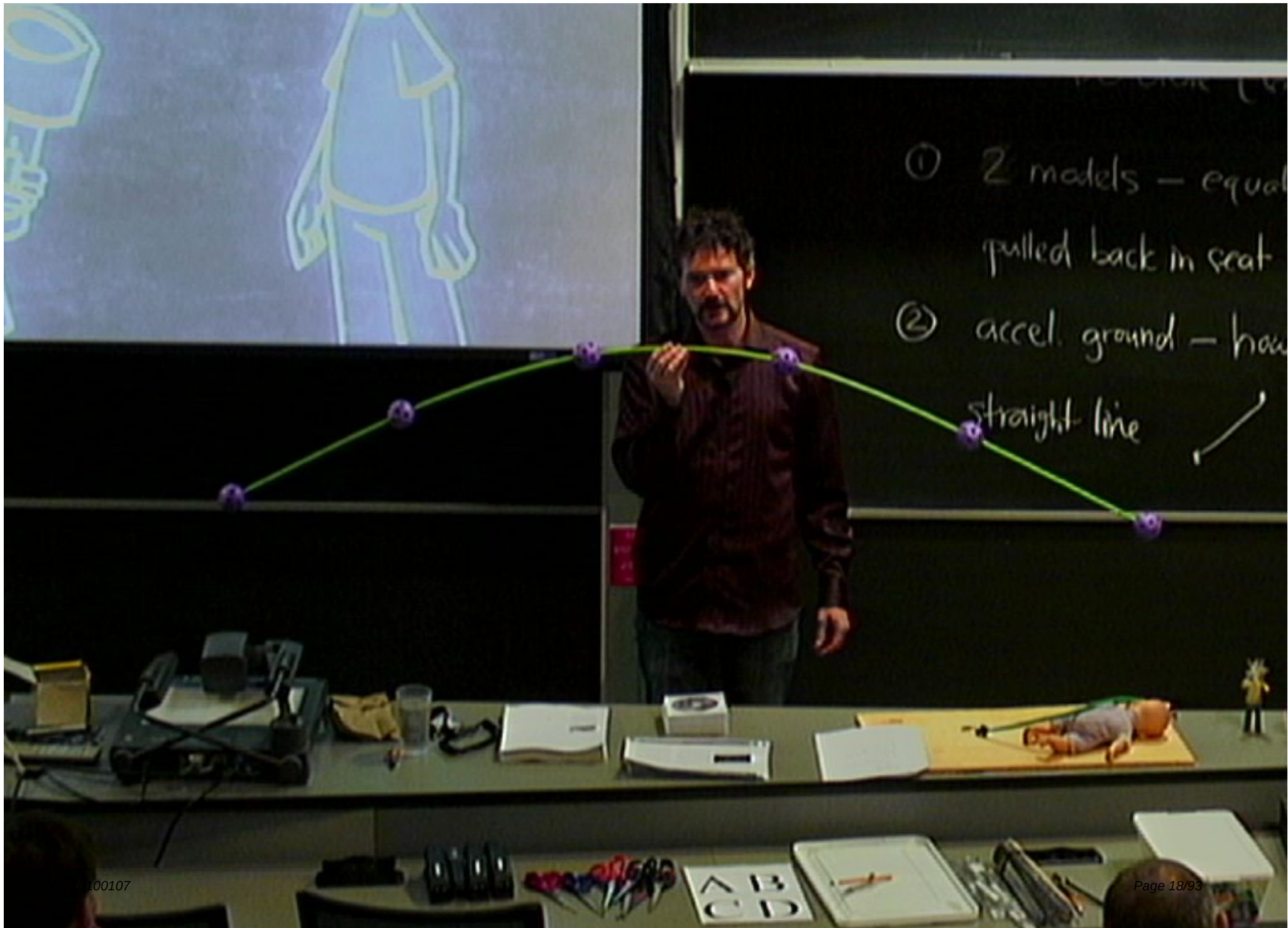


20 200km

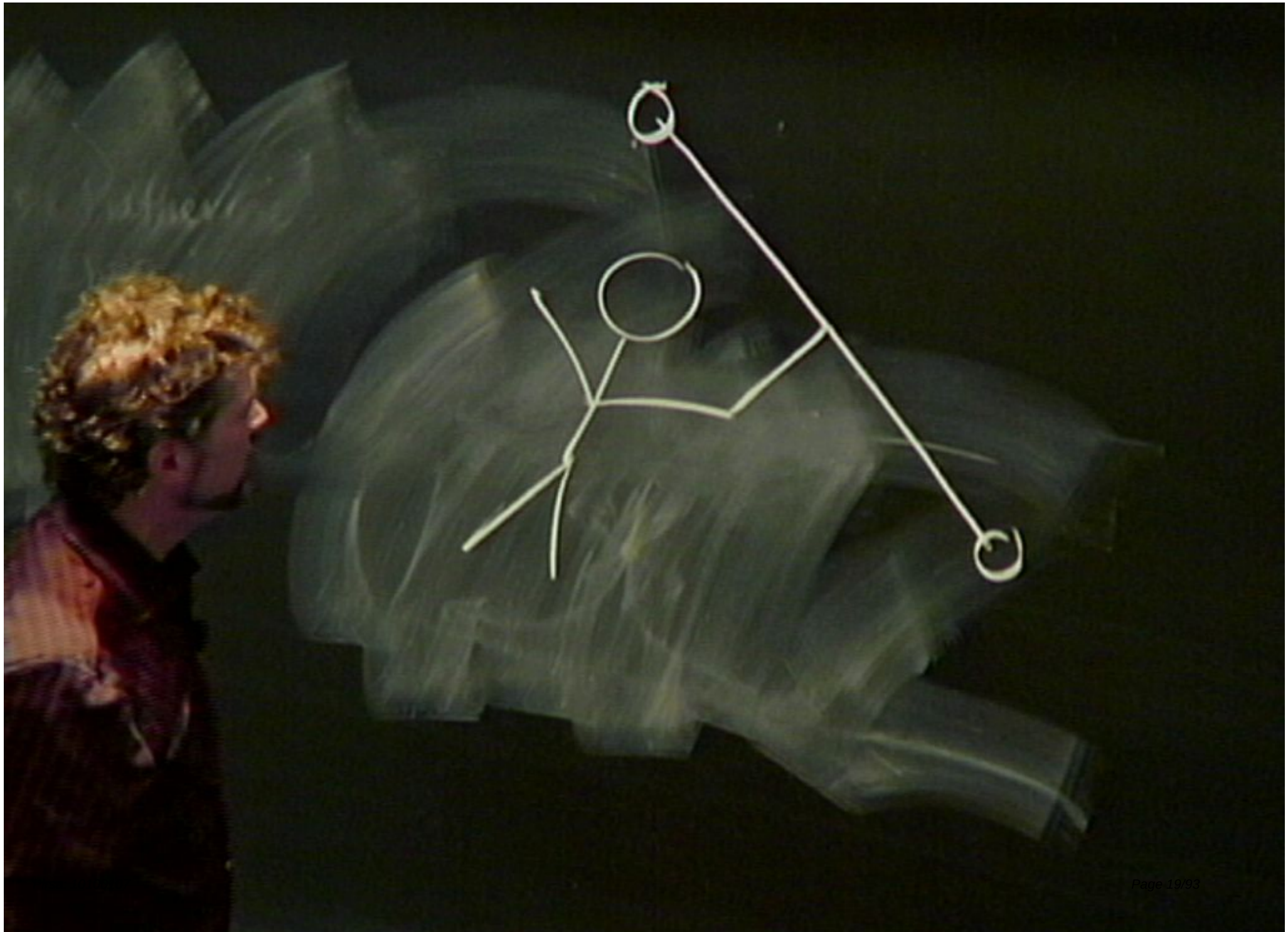
Reimbursement Forms

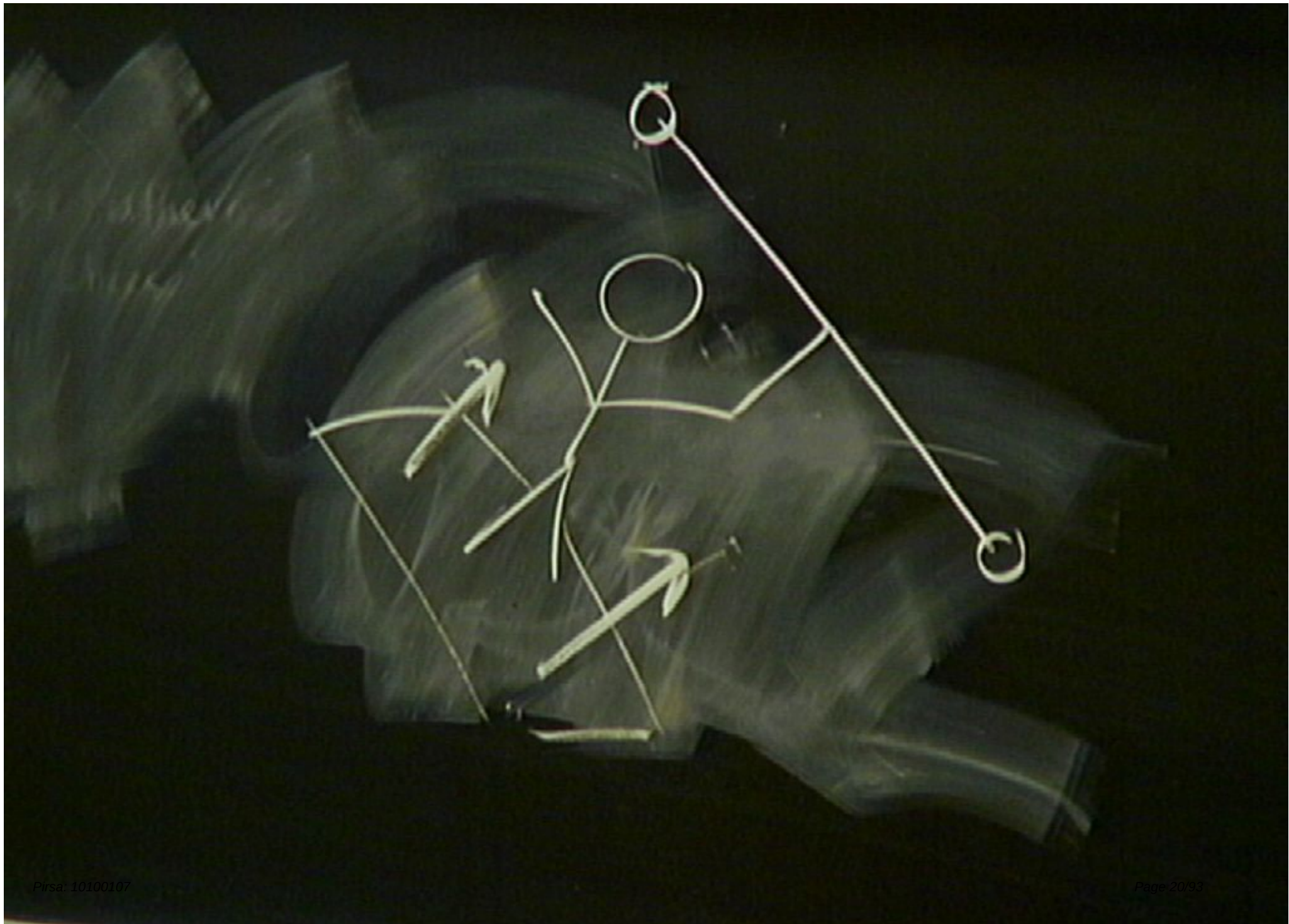
- Driving
- Chris N.
- Return to Julie

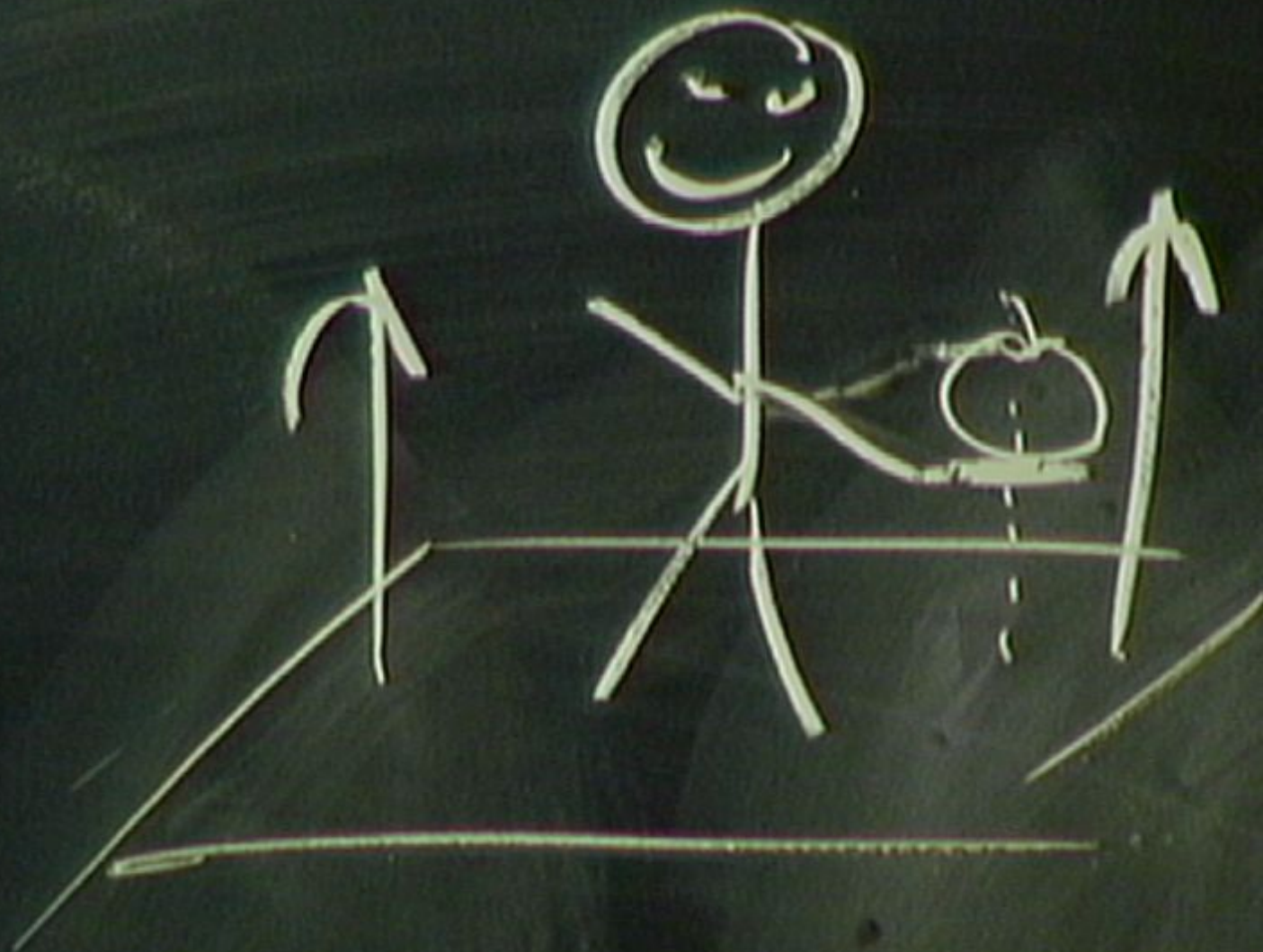


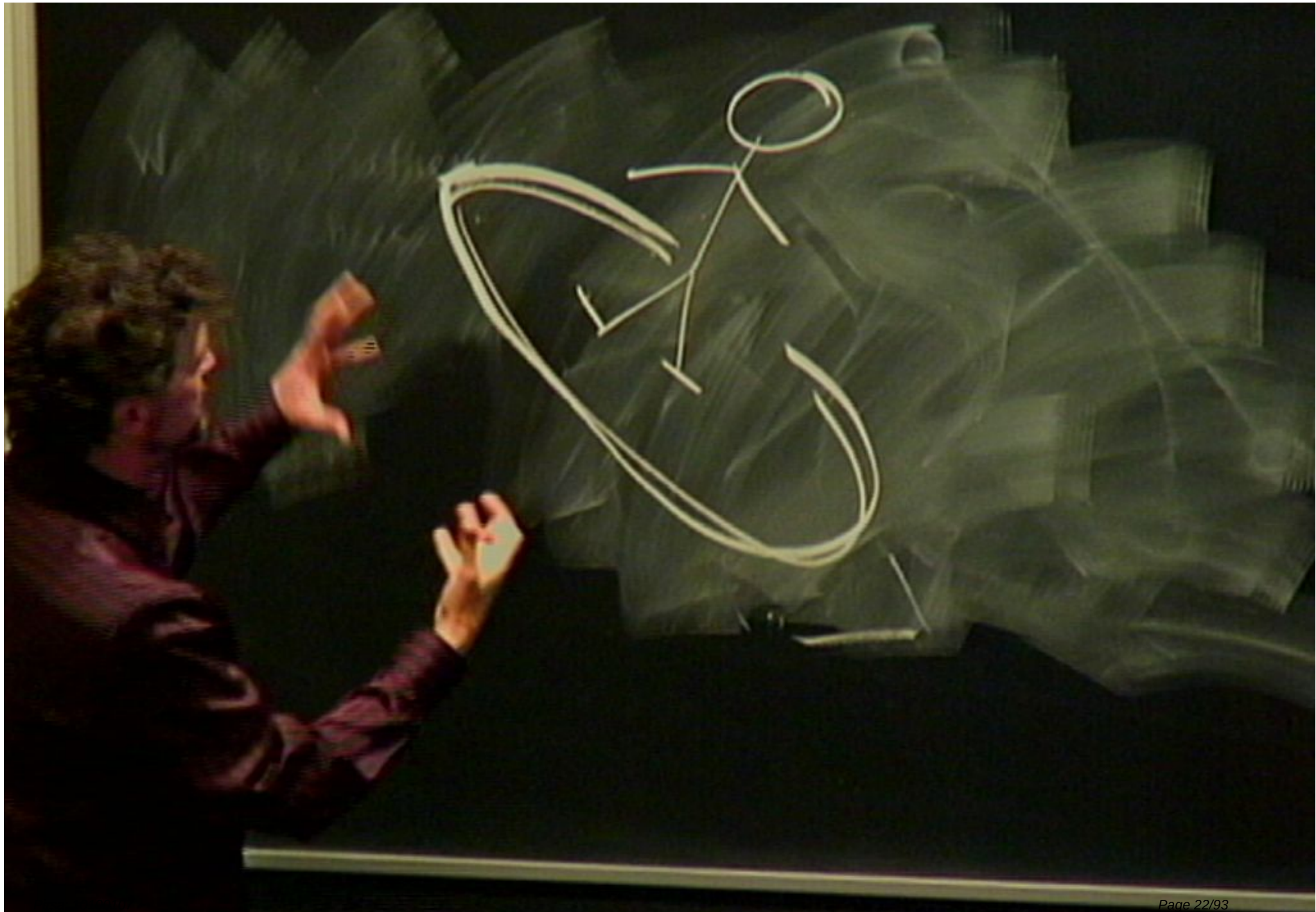


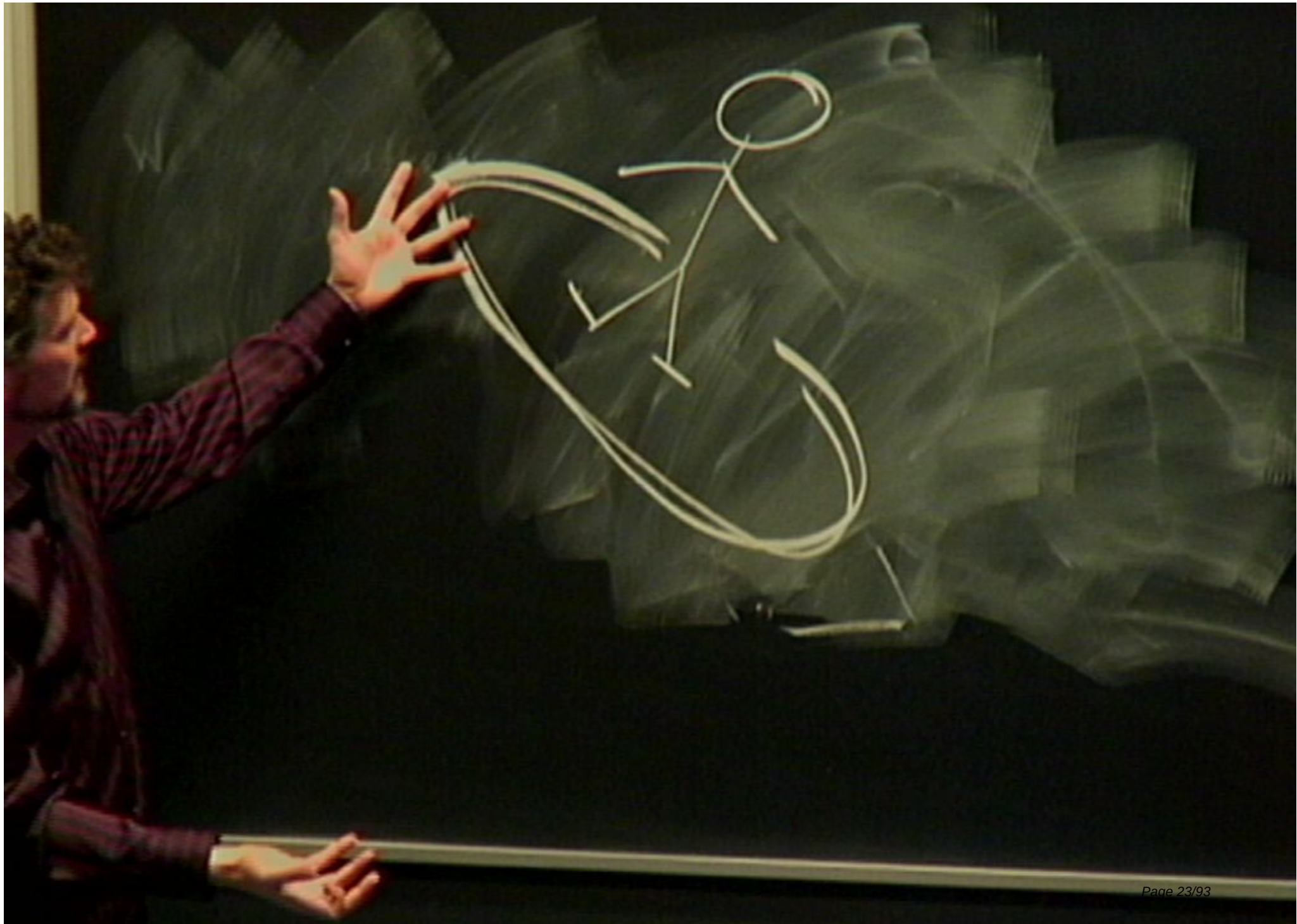
- ① 2 models - equal pulled back in seat
- ② accel. ground - how straight line

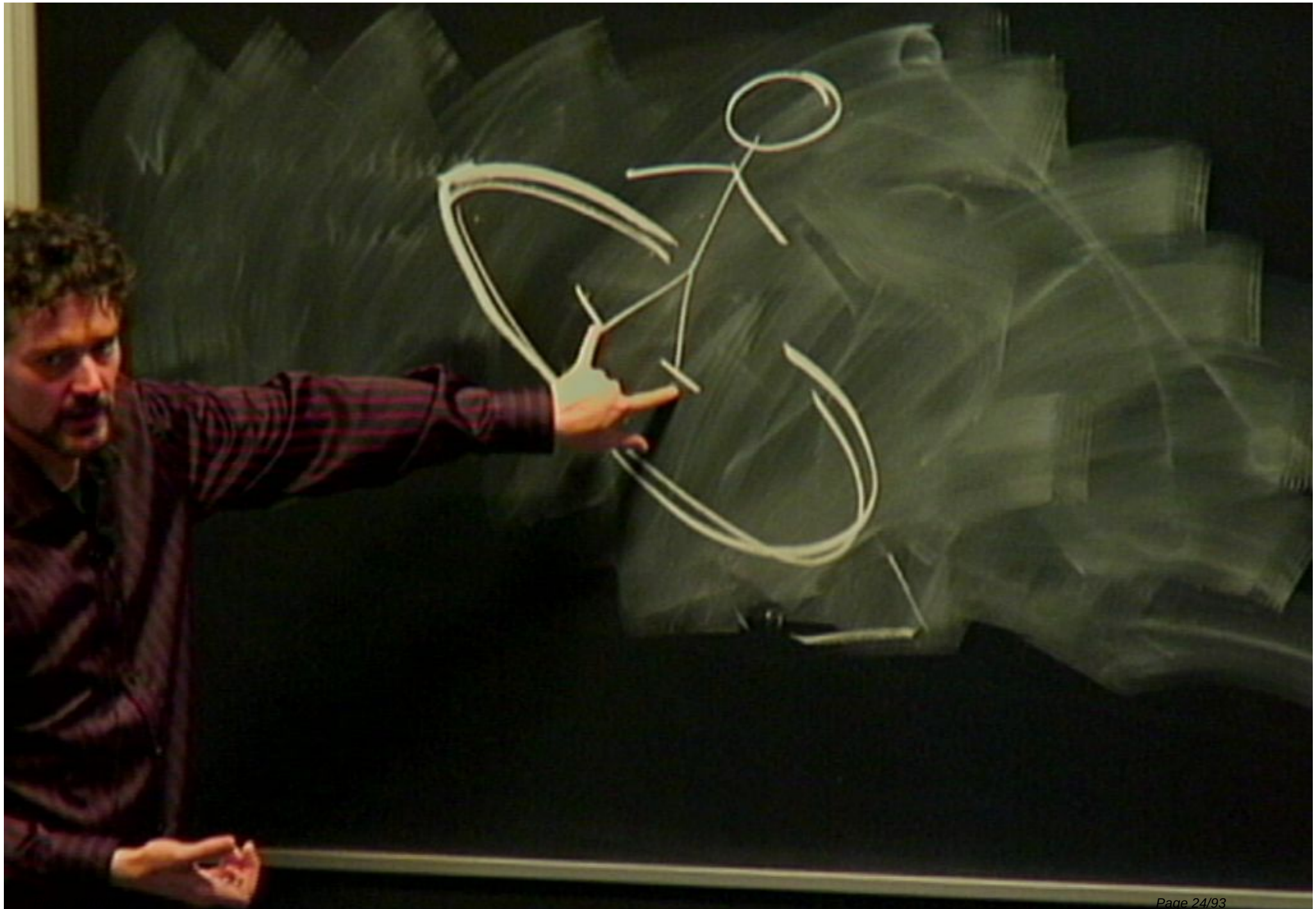


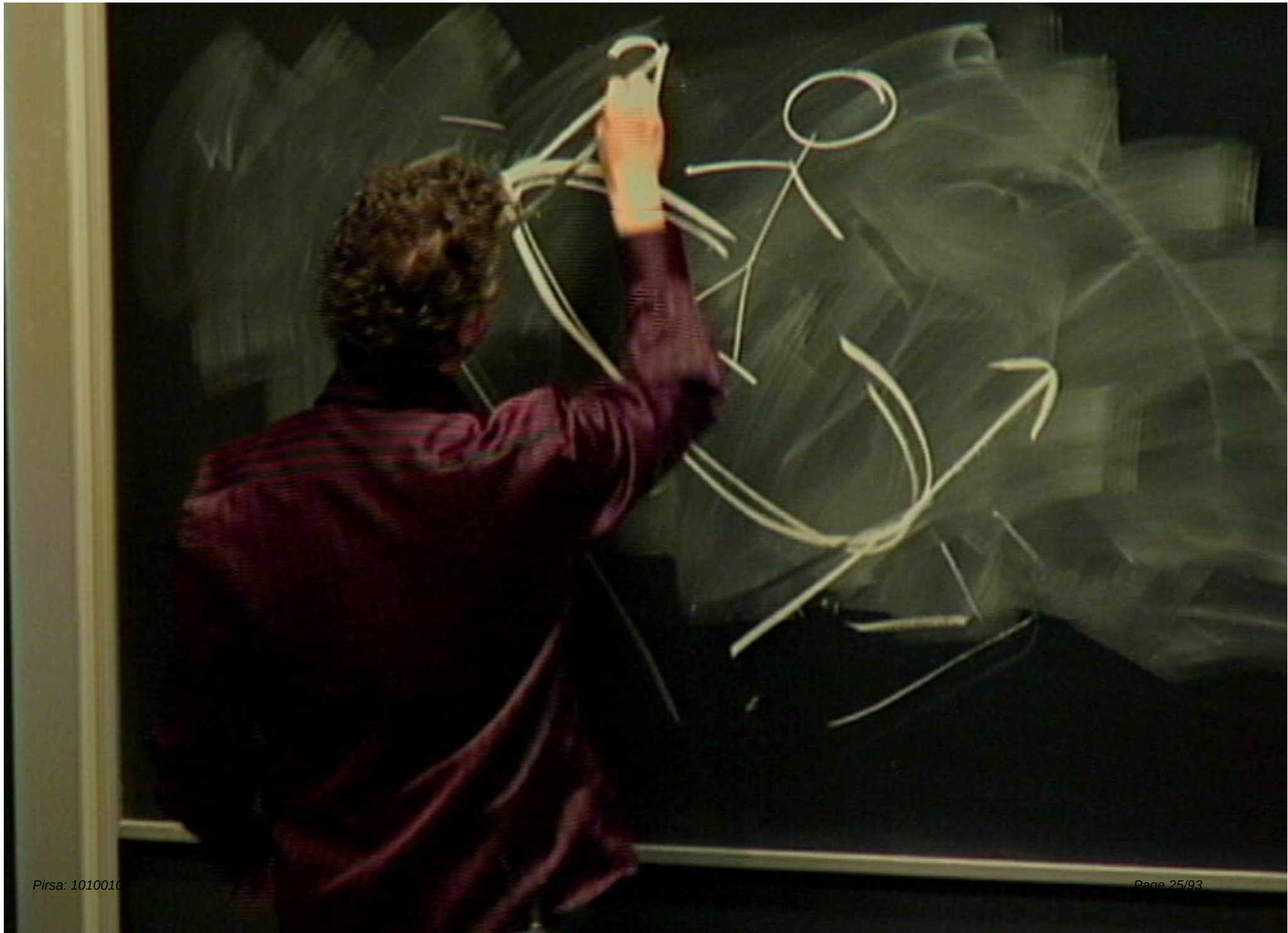


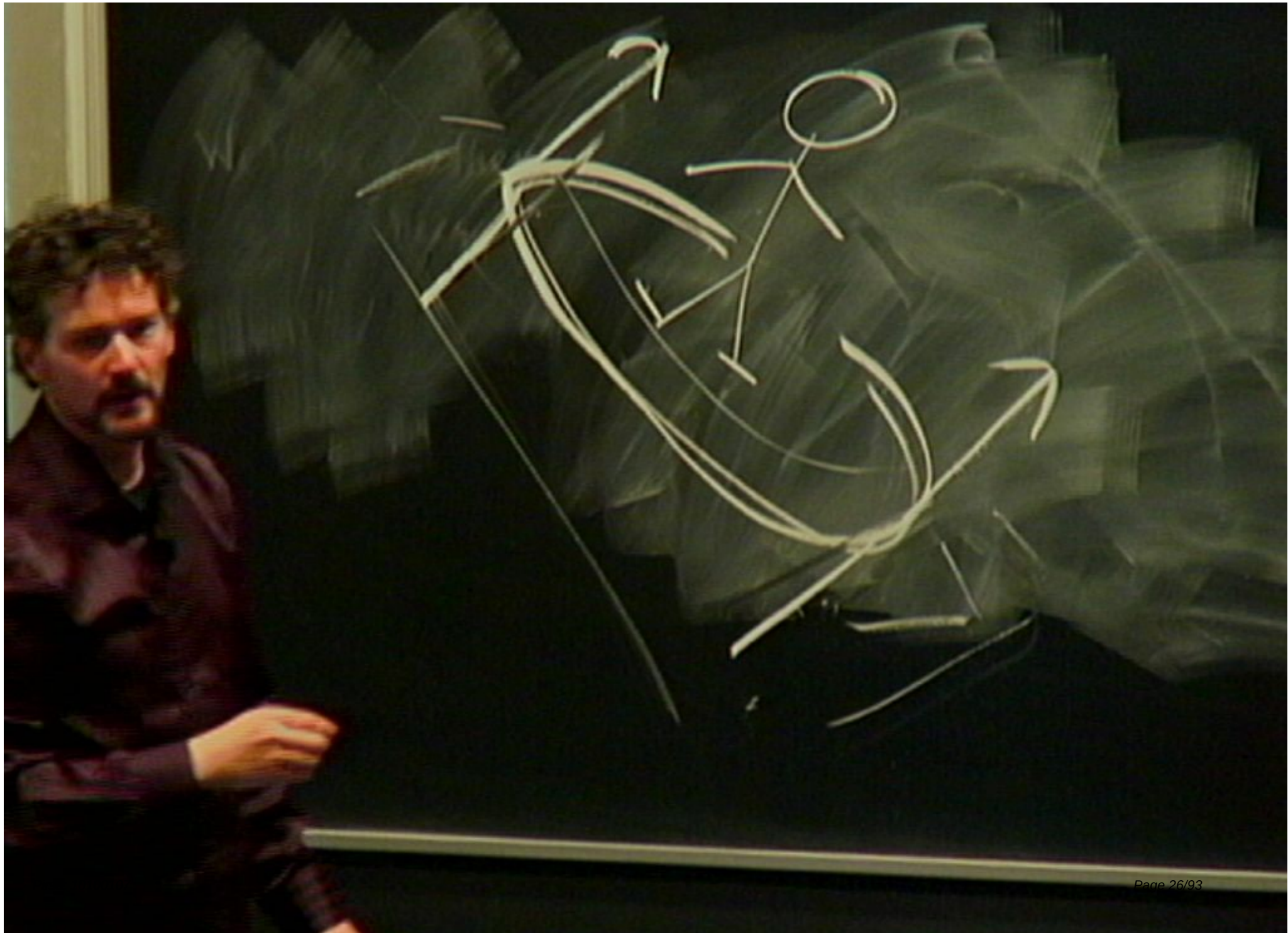


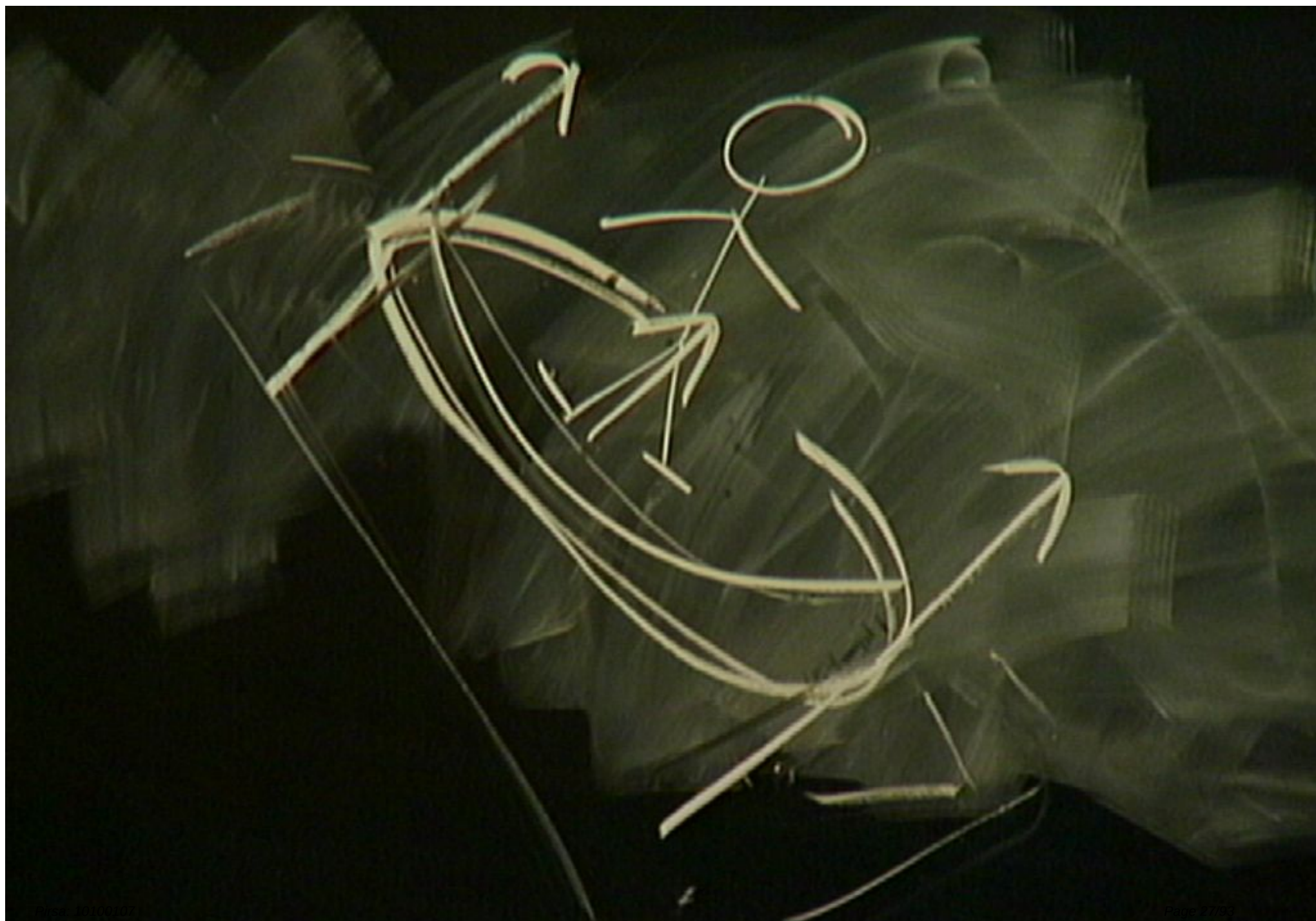




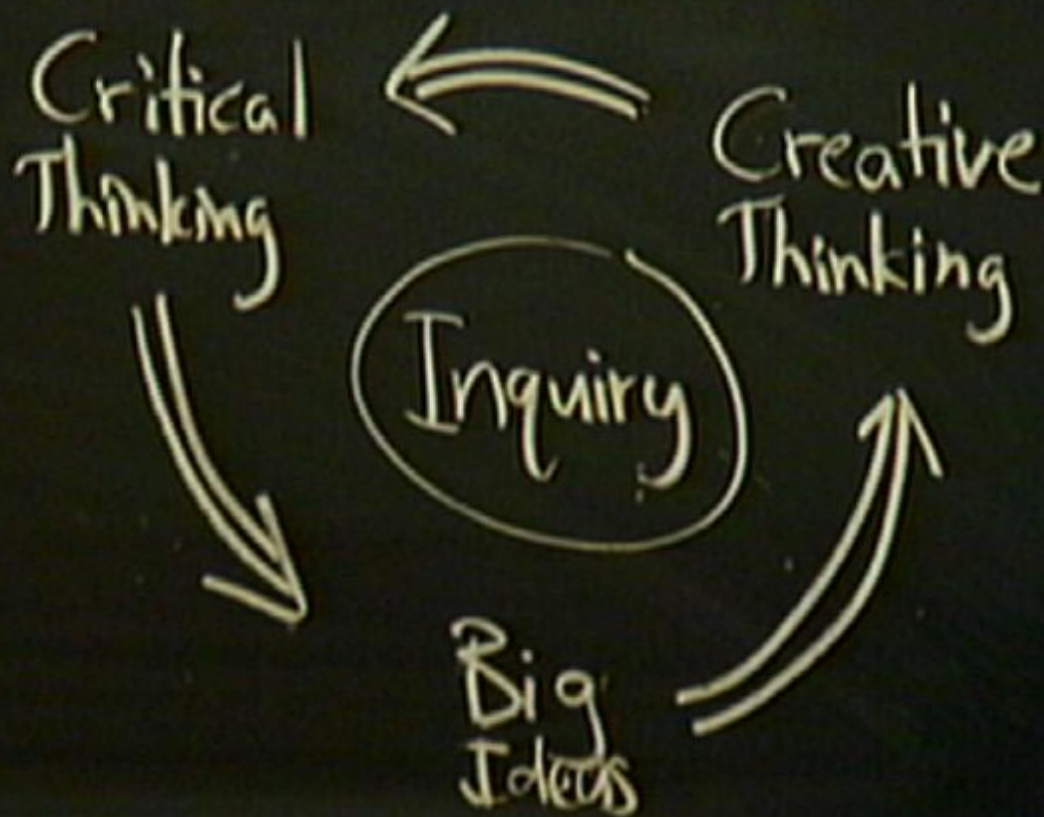








Are you ready to Question Reality?



Do-able (Gr. 9)

① 2 models — equally good?

pulled back in seat (accel.)

② accel. ground — how possible?

straight line



Do-able (Gr. 9)

① 2 models — equally good ?

pulled back in seat (accel.)

② accel. ground — how possible ?

straight line



ALICE

BOB



ALICE

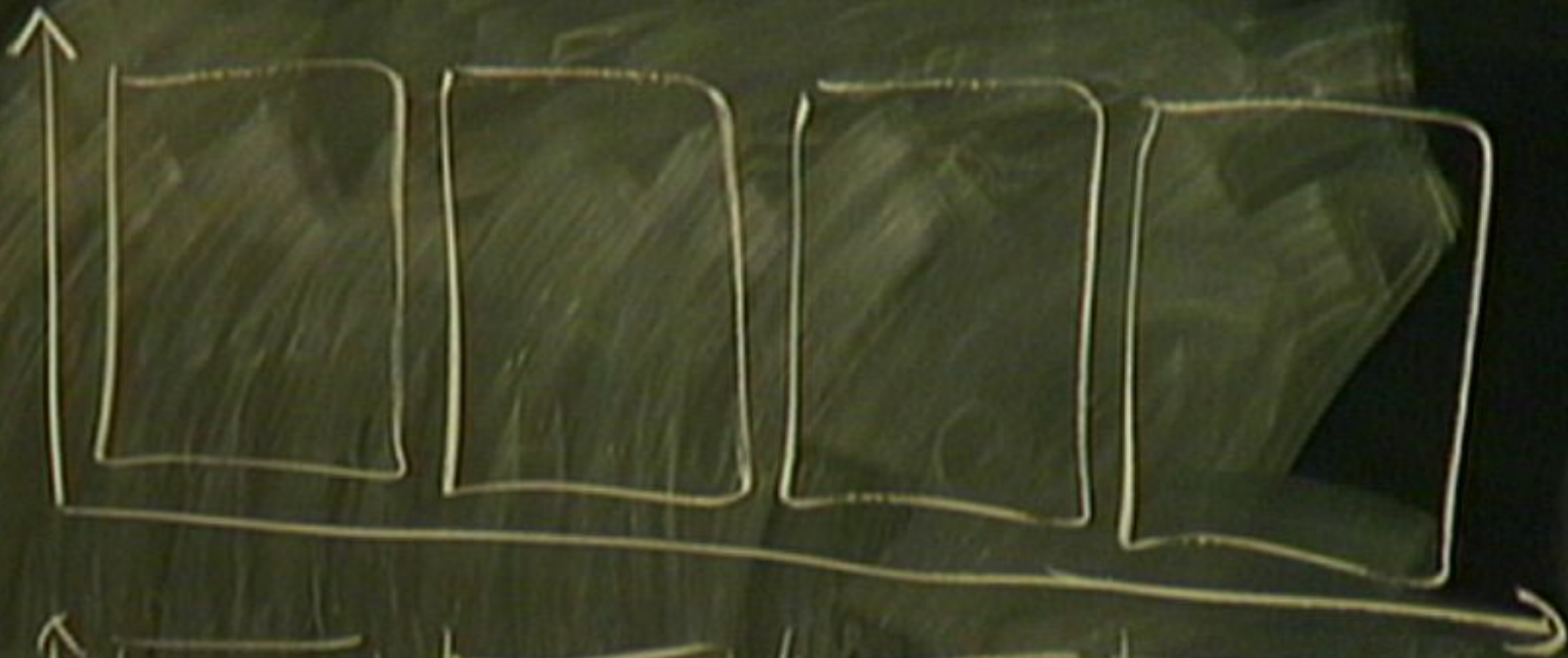
BOB

ALICE

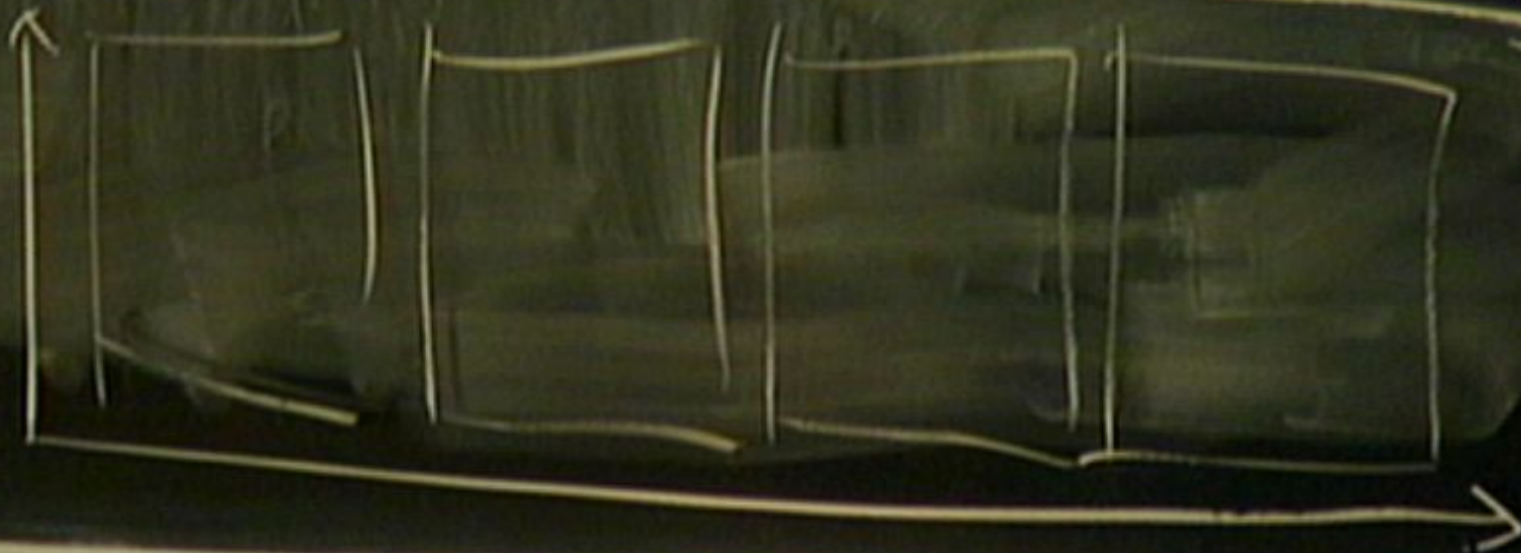
BOB

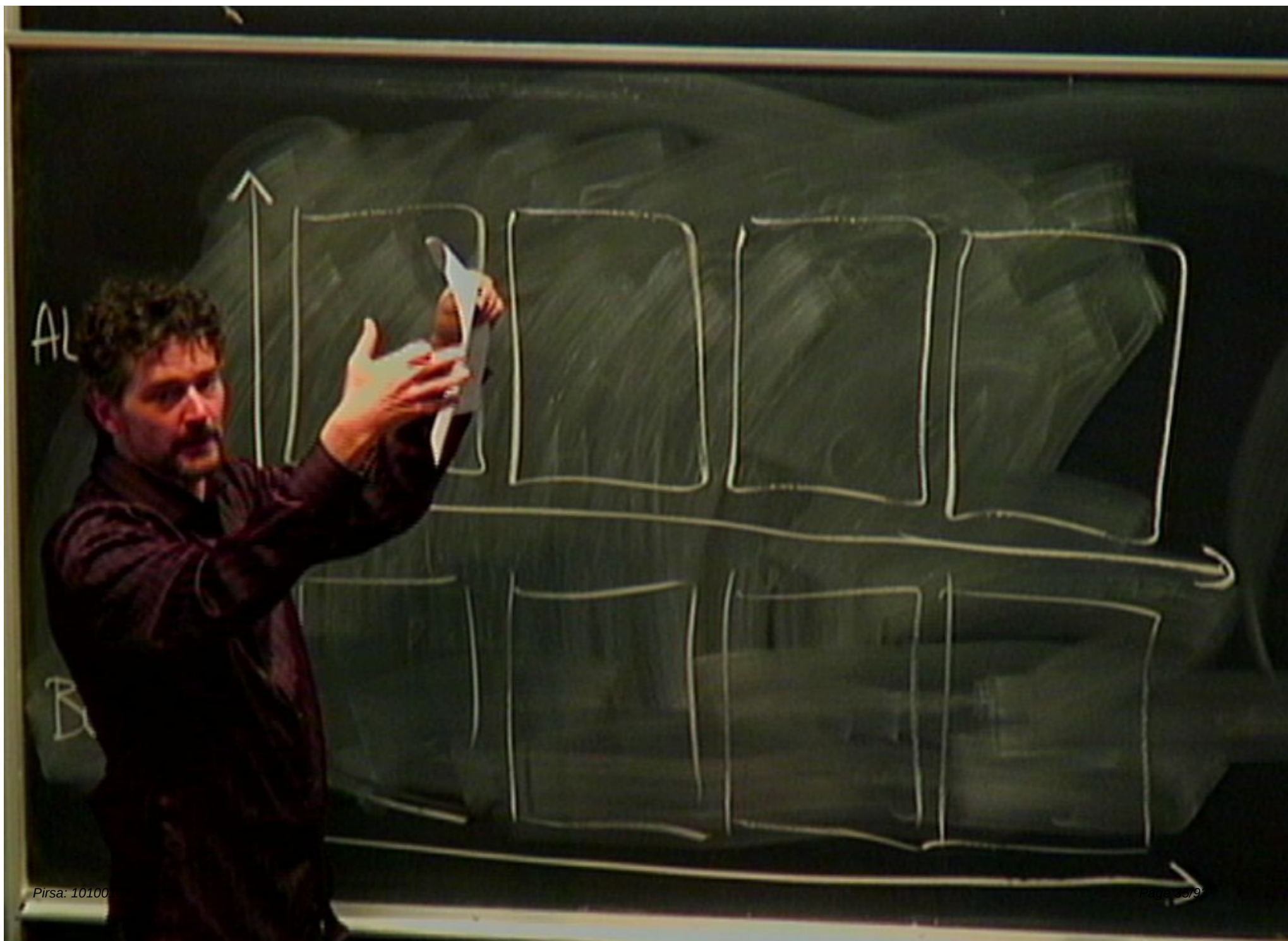


ALICE

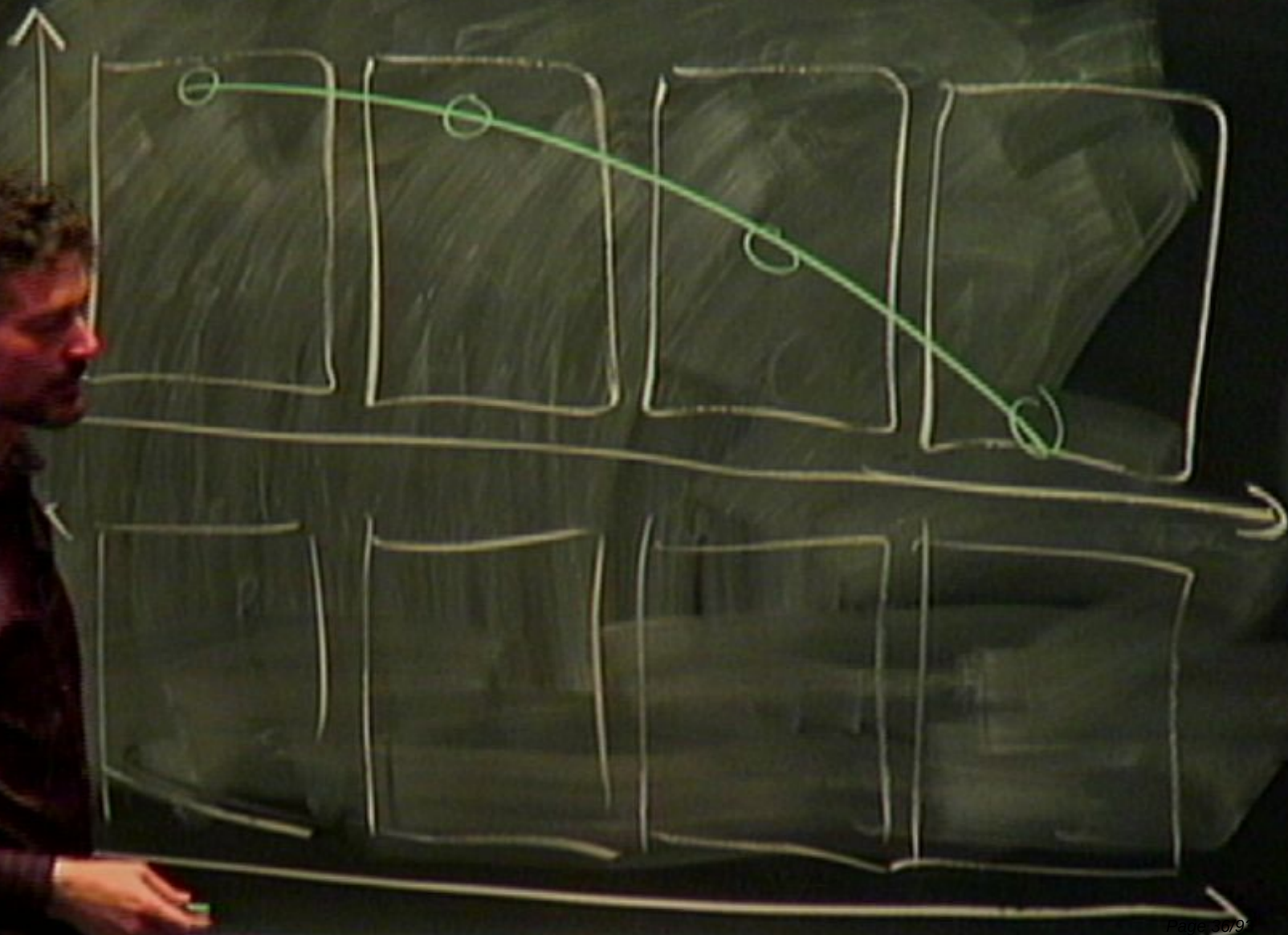


BOB





ALICE



ALICE

curved

BOB

ALICE

curved.

BOB

SPACE

curved $\leftrightarrow$ accel $\leftrightarrow$ force

ALICE

TIME

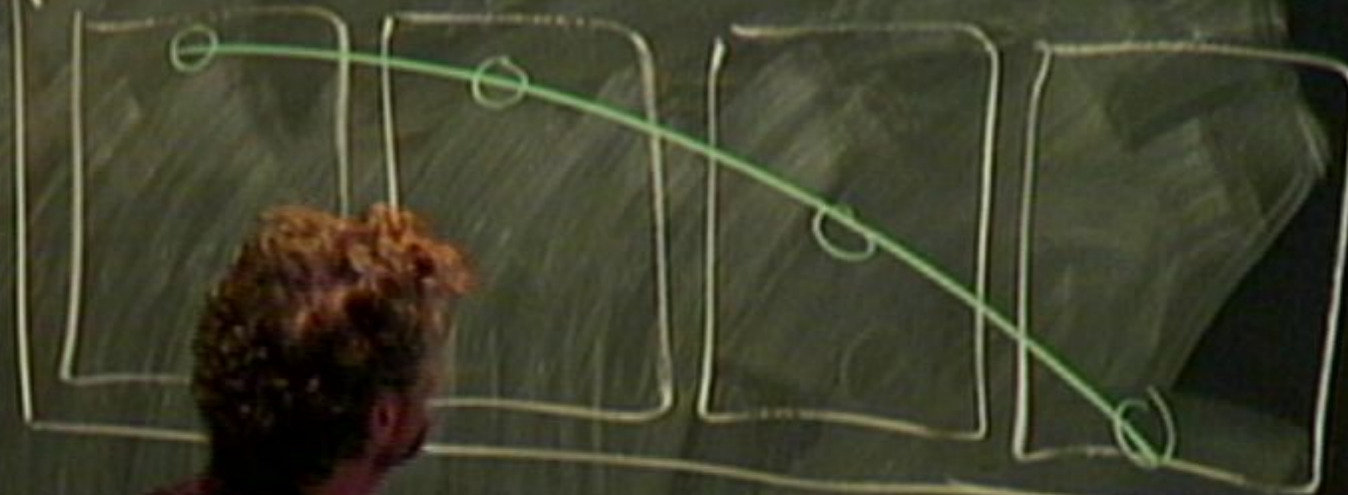
straight $\leftrightarrow$ no accel

BOB

SPACE

curved $\leftrightarrow$ accel $\leftrightarrow$ force

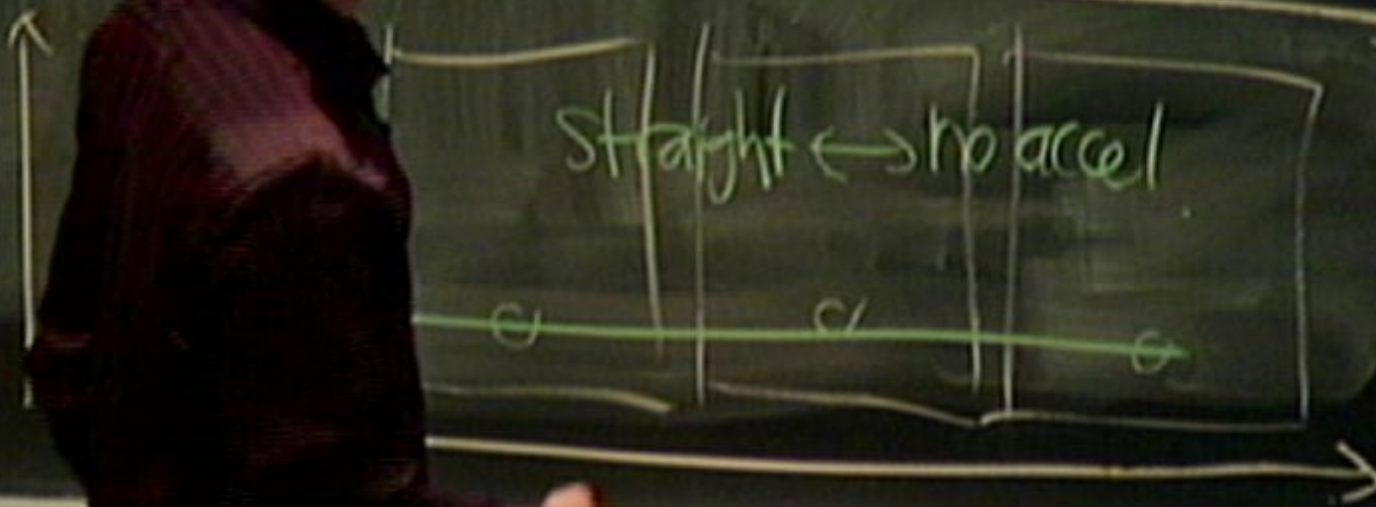
ALICE



TIME

BOB

straight $\leftrightarrow$ no accel



SPACE

curved $\leftrightarrow$ accel $\leftrightarrow$ force

ALICE

TIME

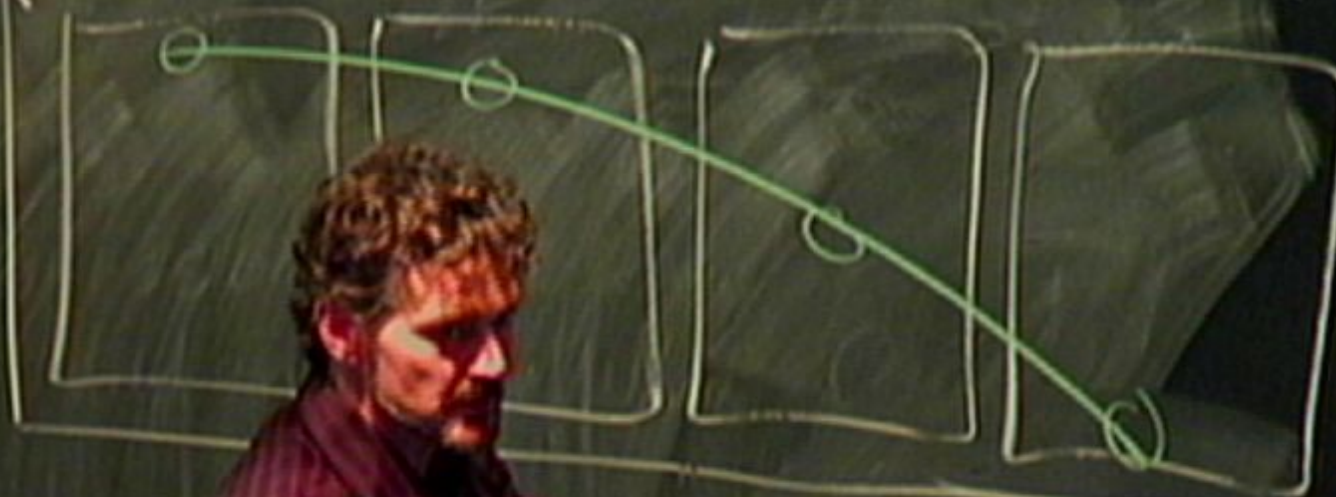
BOB

straight $\leftrightarrow$ no accel $\leftrightarrow$ no force

SPACE

curved $\leftrightarrow$ accel. $\leftrightarrow$ force

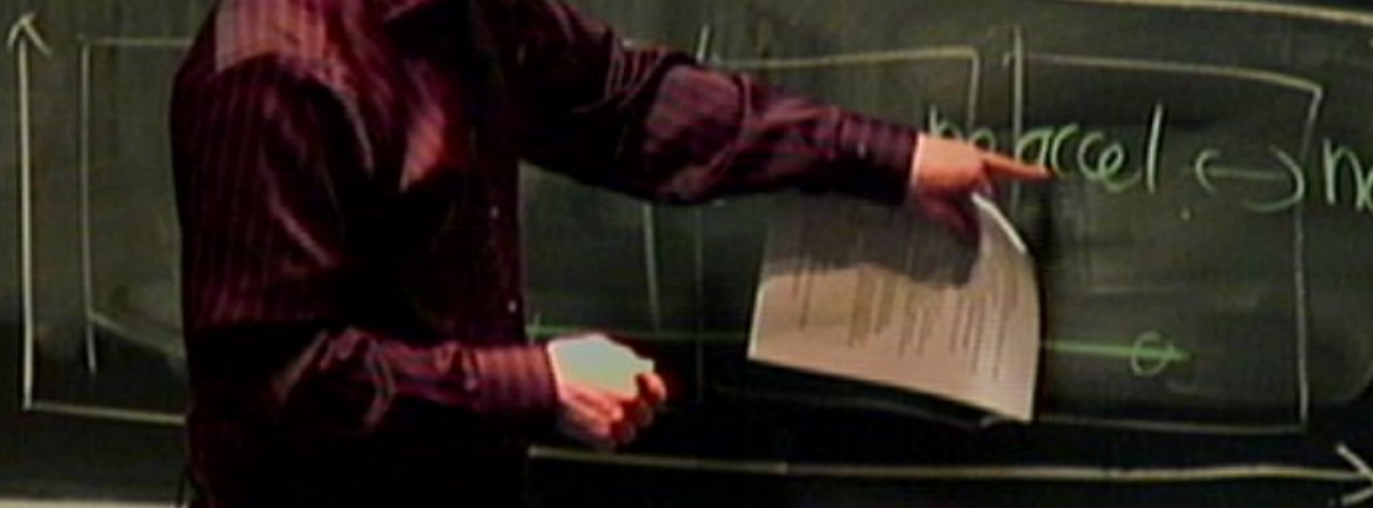
ALICE



TIME

BOB

no accel. $\leftrightarrow$ no force



SPACE

curved $\leftrightarrow$ accel $\leftrightarrow$ force

ALICE



TIME

BOB

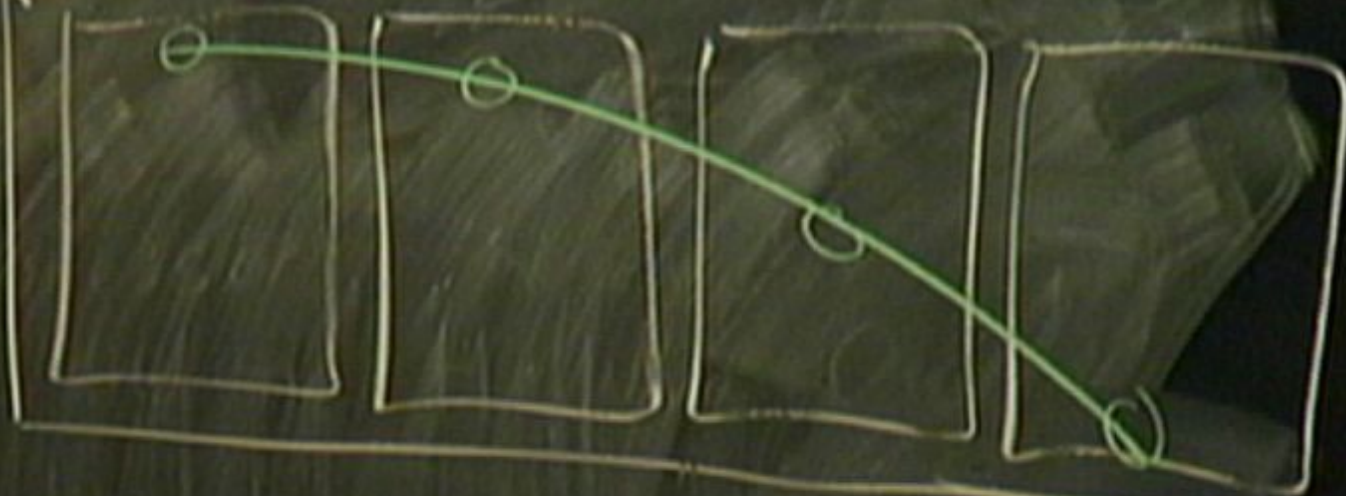
straight $\leftrightarrow$ no accel $\leftrightarrow$ no force



SPACE

curved $\leftrightarrow$ accel $\leftrightarrow$ force

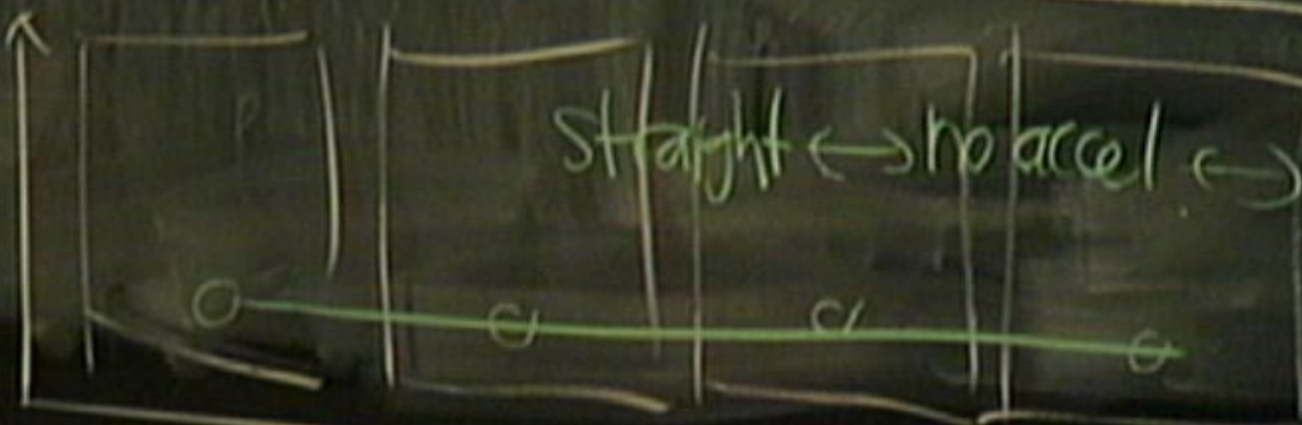
ALICE



TIME

straight $\leftrightarrow$ no accel $\leftrightarrow$ no force

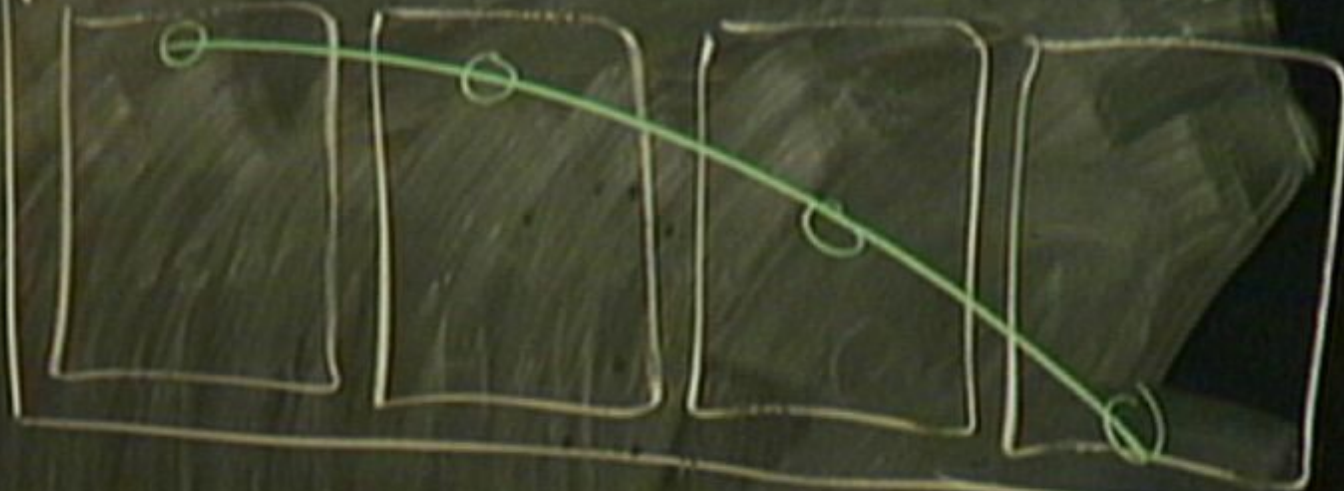
BOB



SPACE

curved $\leftrightarrow$ accel. $\leftrightarrow$ force

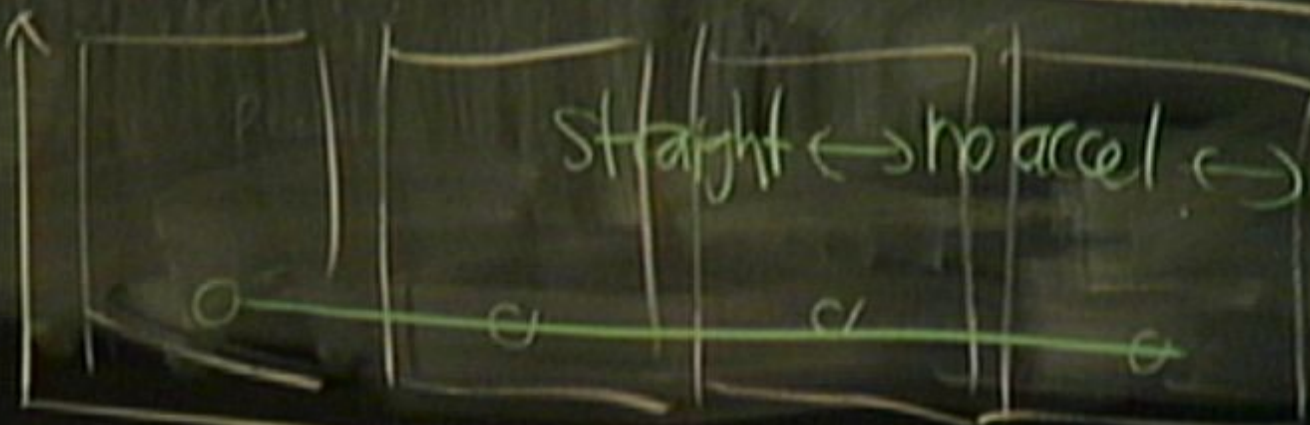
ALICE



TIME

BOB

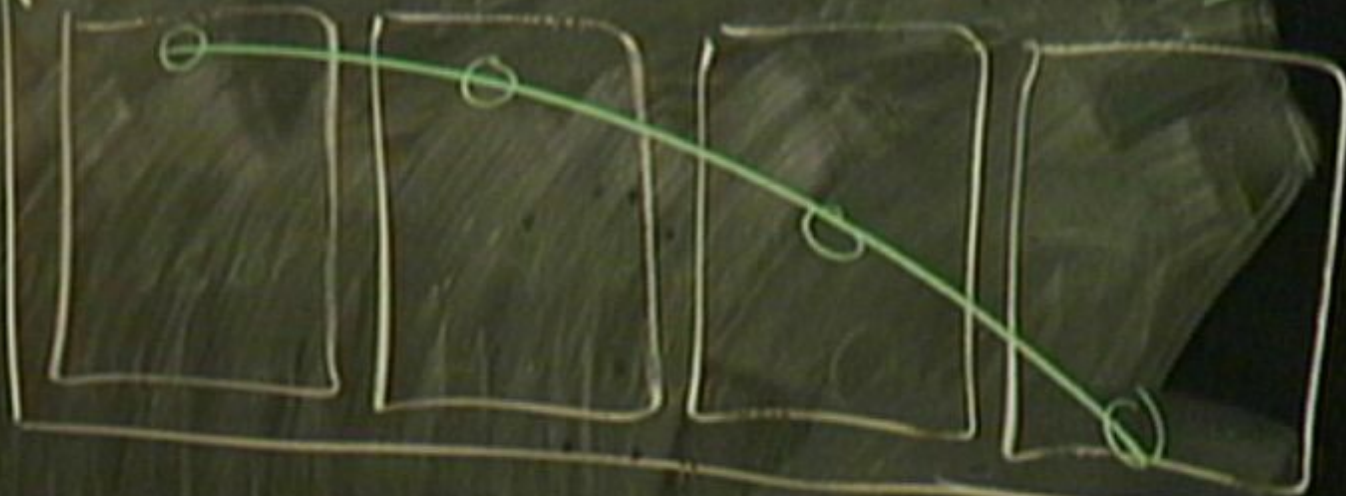
straight $\leftrightarrow$ no accel. $\leftrightarrow$ no force



SPACE

curved $\leftrightarrow$ accel. $\leftrightarrow$ force

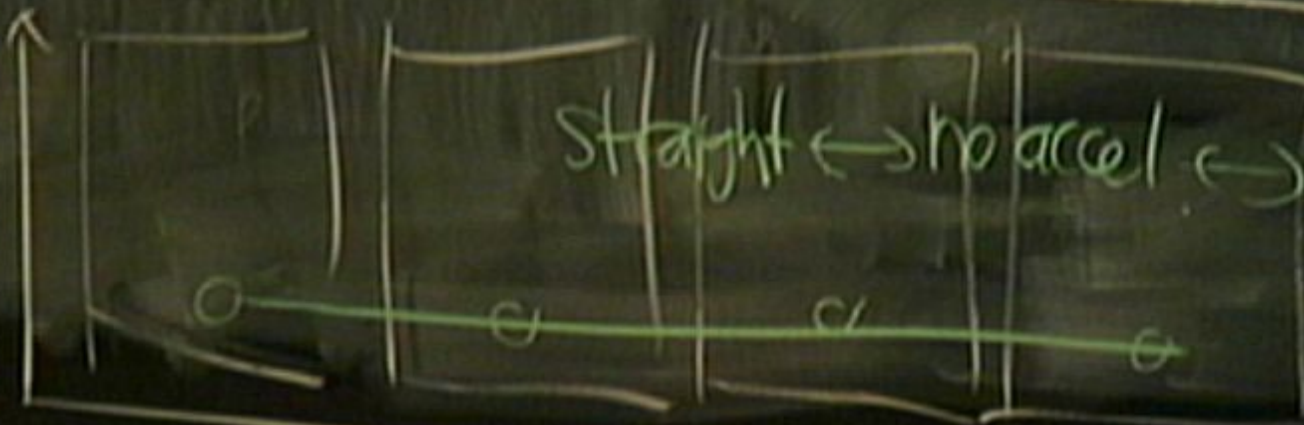
ALICE



TIME

straight $\leftrightarrow$ no accel. $\leftrightarrow$ no force

BOB



SPACE

curved $\leftrightarrow$ accel $\leftrightarrow$ force

ALICE

straight

curved

TIME

straight $\leftrightarrow$ no accel $\leftrightarrow$ no force

BOB

c/

SPACE

curved $\leftrightarrow$ accel $\leftrightarrow$ force

ALICE

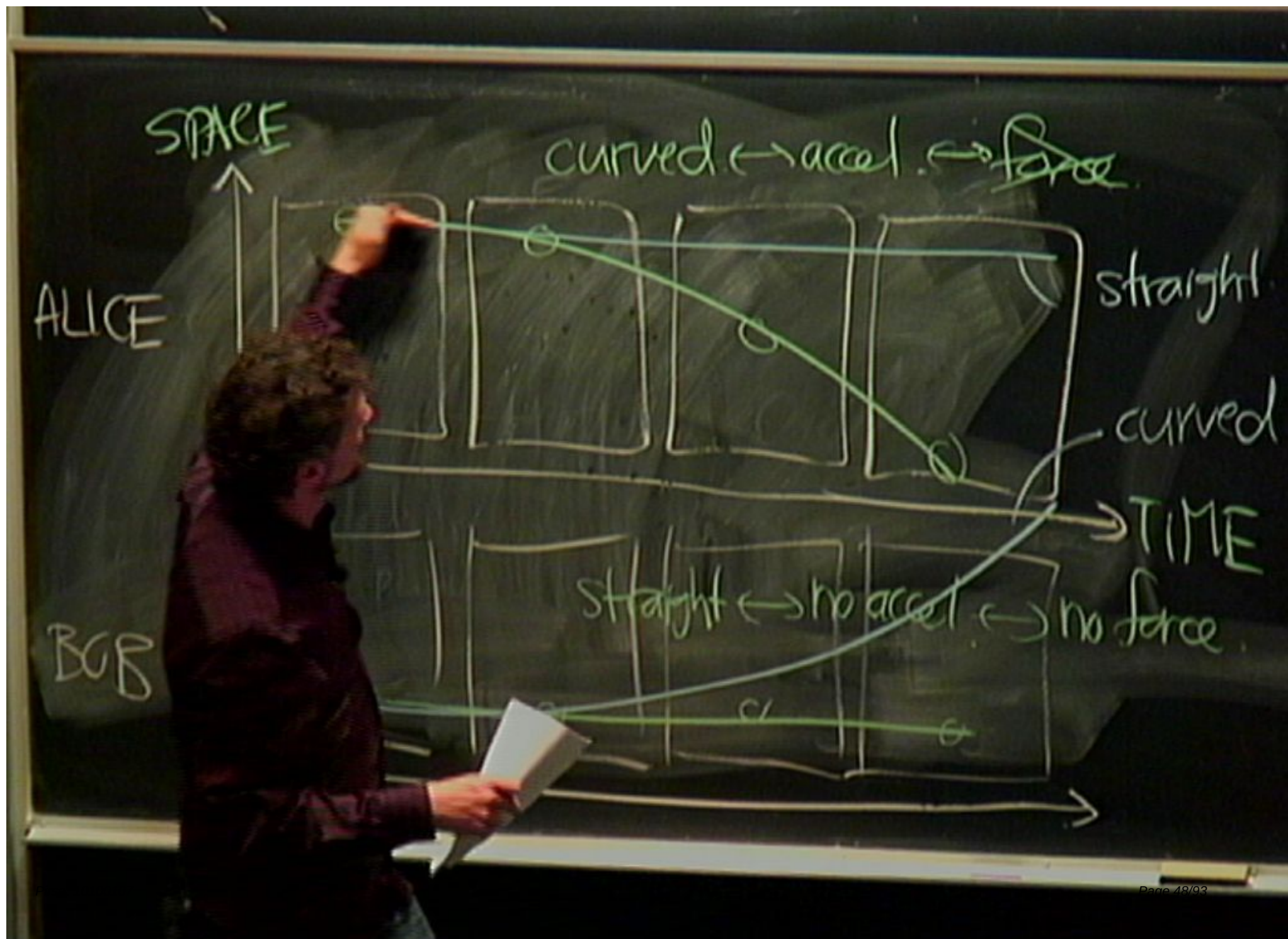
straight

curved

TIME

straight $\leftrightarrow$ no accel $\leftrightarrow$ no force

BOB



SPACE

curved $\leftrightarrow$ accel $\leftrightarrow$ force

ALICE

straight

curved

TIME

straight $\leftrightarrow$ no accel $\leftrightarrow$ no force

BOB

SPACE

curved $\leftrightarrow$ accel $\leftrightarrow$ ~~force~~

ALICE

straight

curved

TIME

straight $\leftrightarrow$ no accel $\leftrightarrow$ no ~~force~~

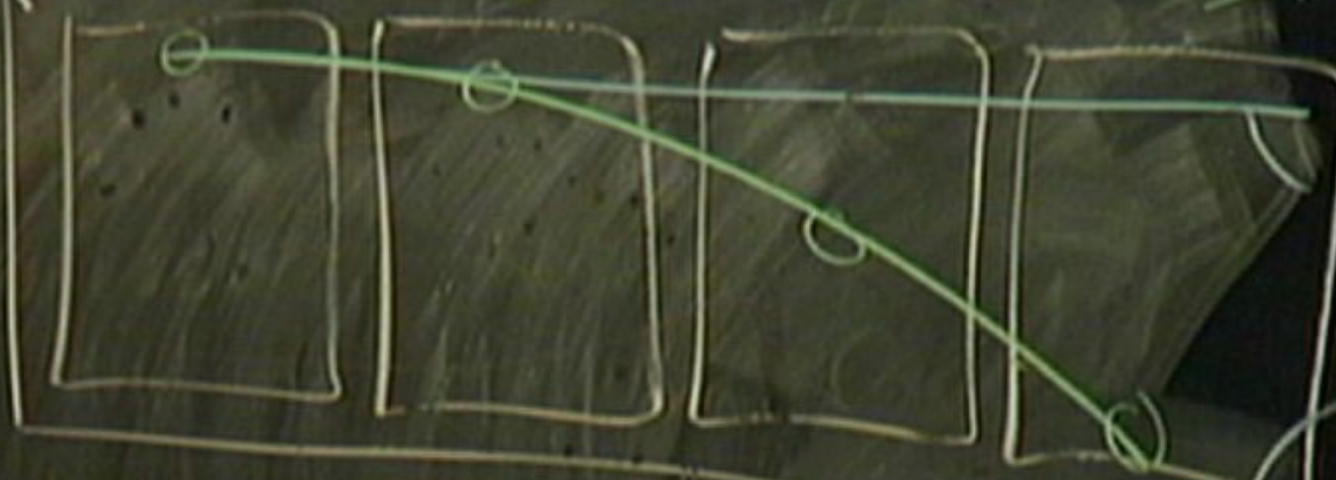
BOB

or

SPACE

curved $\leftrightarrow$ accel $\leftrightarrow$ ~~force~~

ALICE



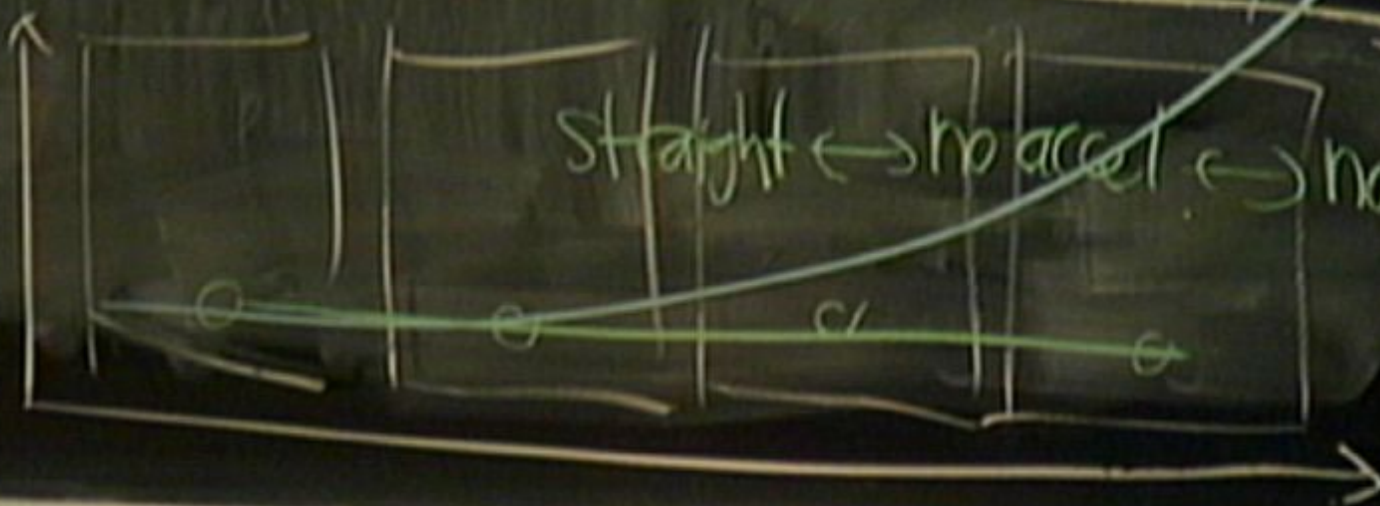
straight

curved

TIME

straight $\leftrightarrow$ no accel $\leftrightarrow$ no ~~force~~

BOB



SPACE

curved $\leftrightarrow$ accel $\leftrightarrow$ force

ALICE

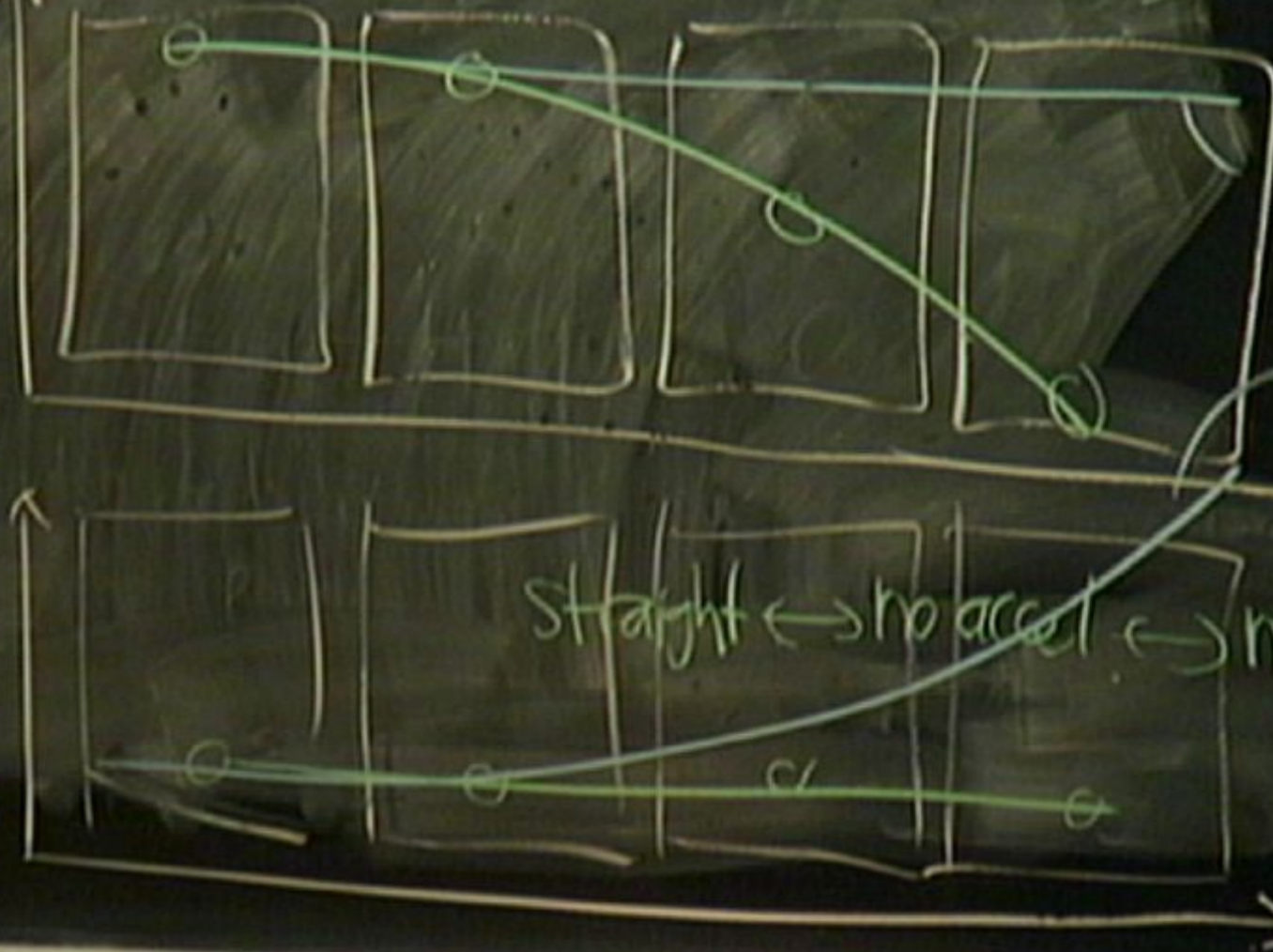
straight

curved

TIME

straight $\leftrightarrow$ no accel $\leftrightarrow$ no force

BOB



SPACE

curved $\leftrightarrow$ accel $\leftrightarrow$ force

ALICE

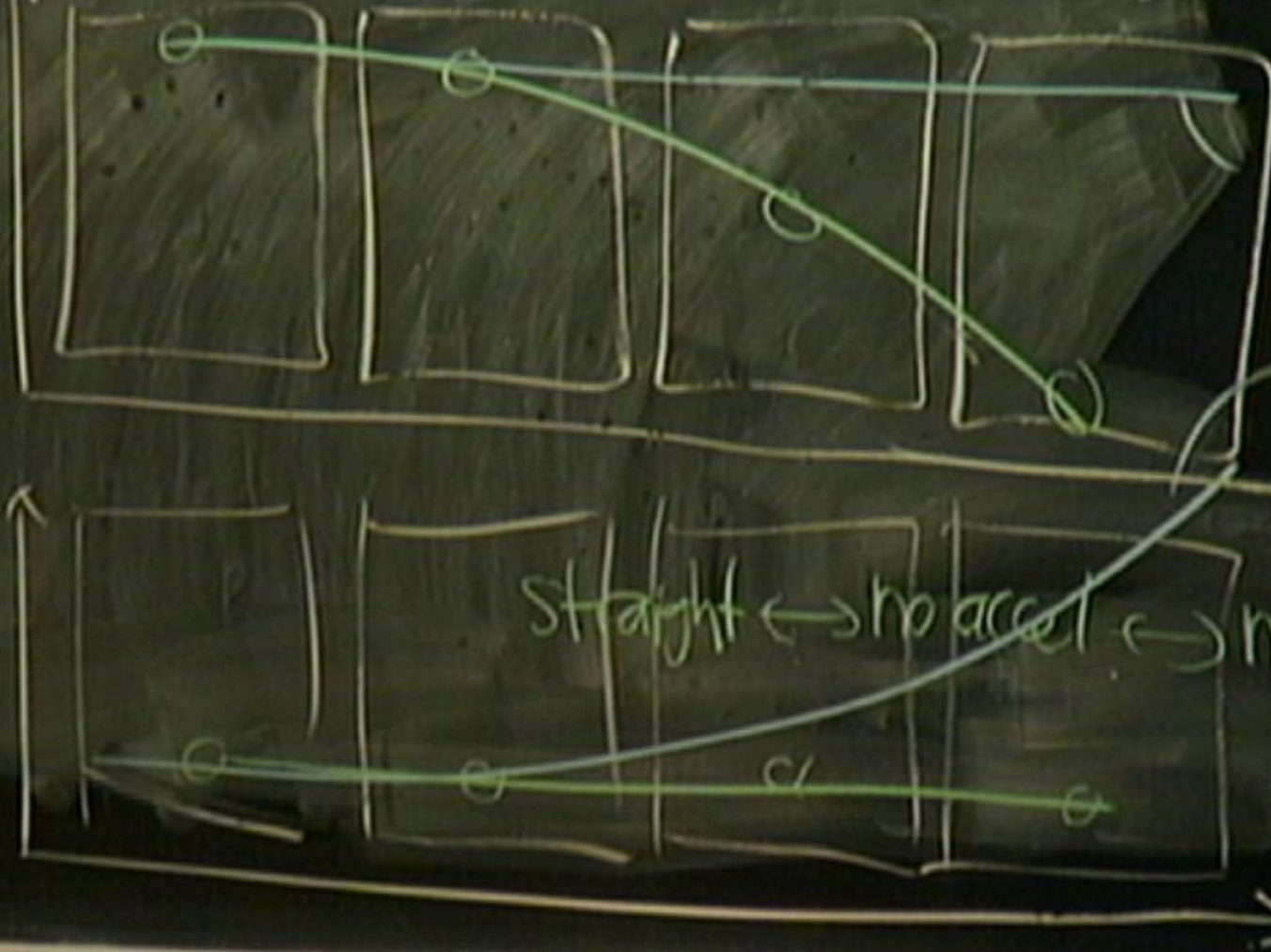
straight

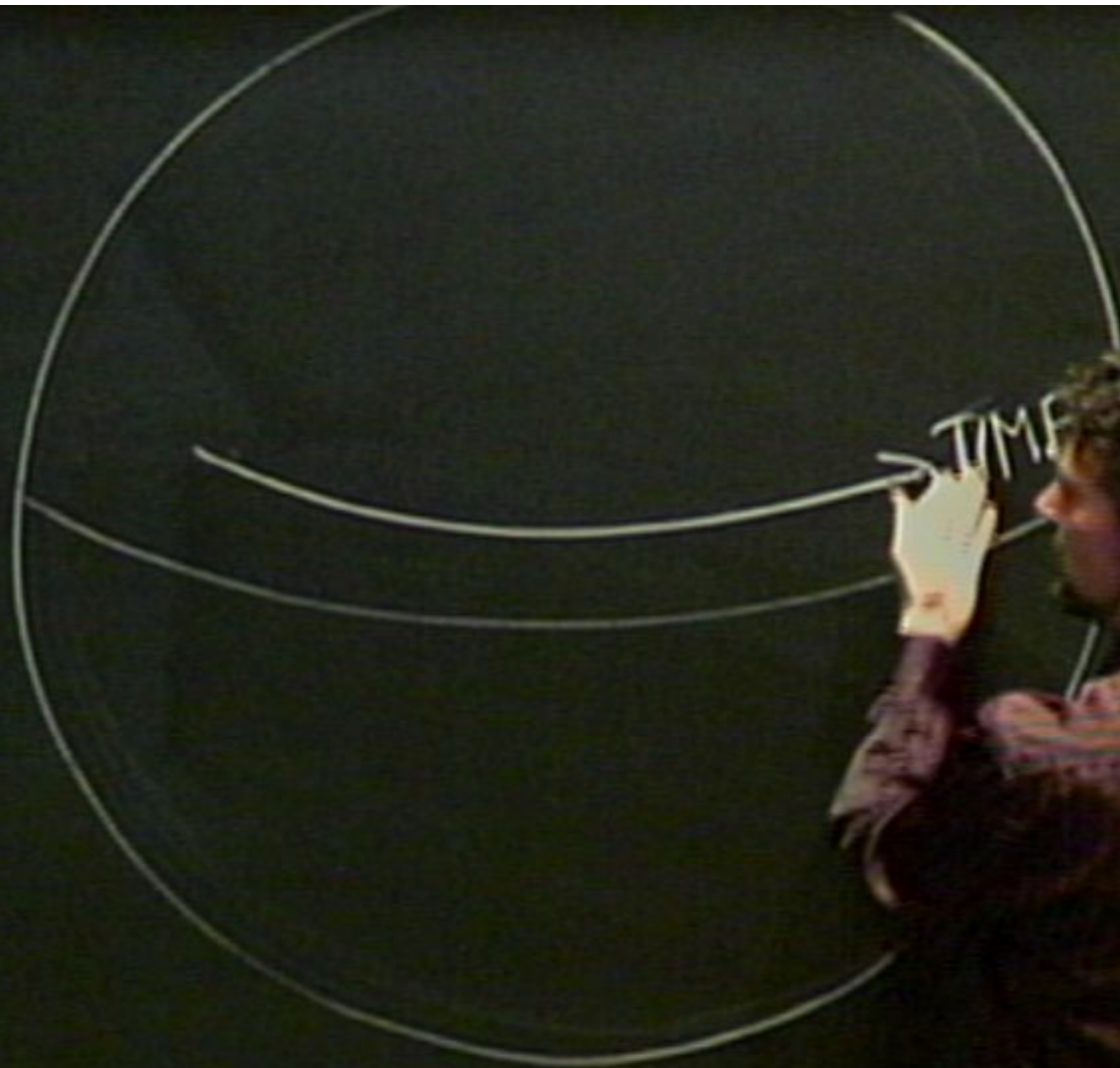
curved

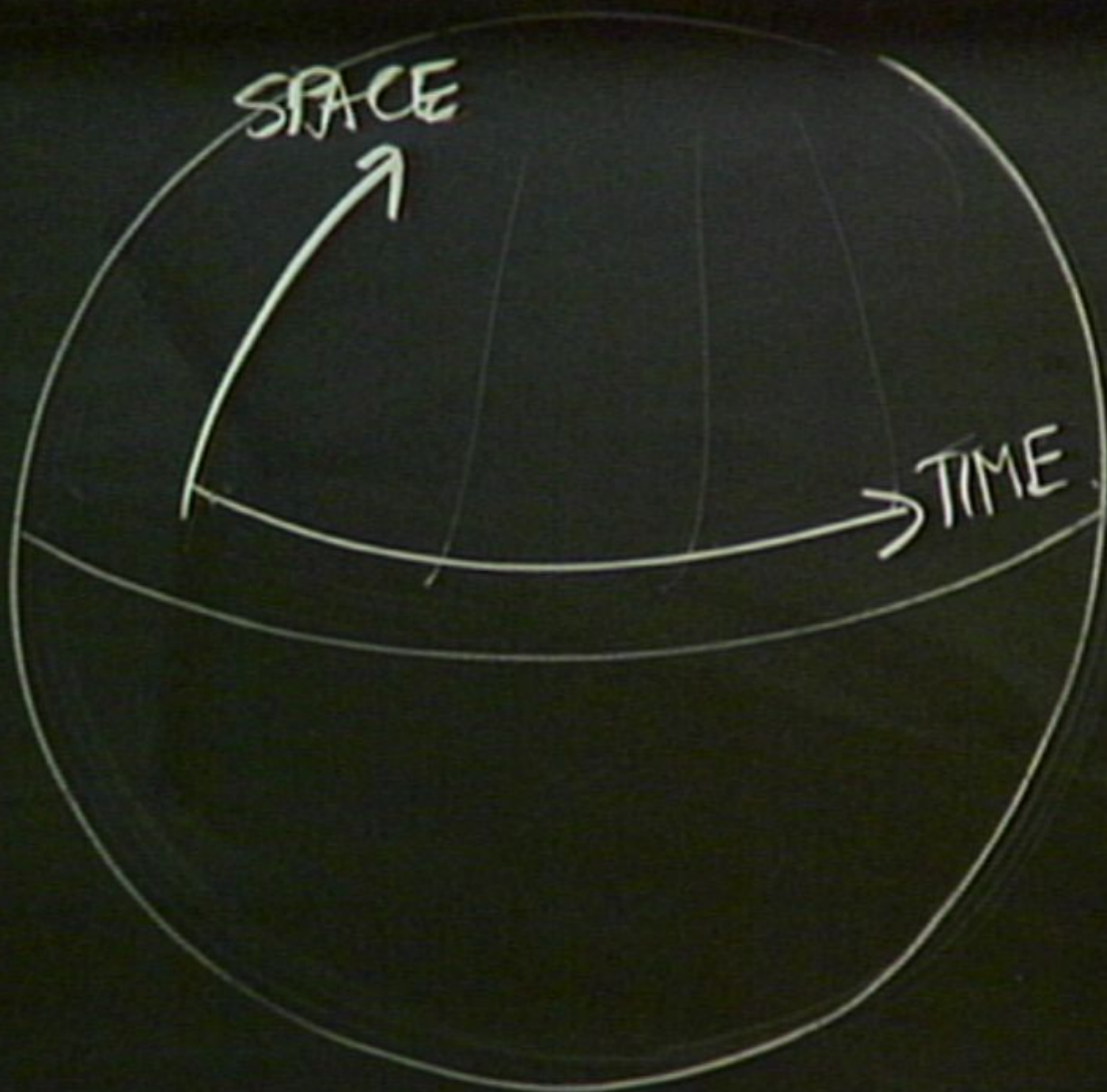
TIME

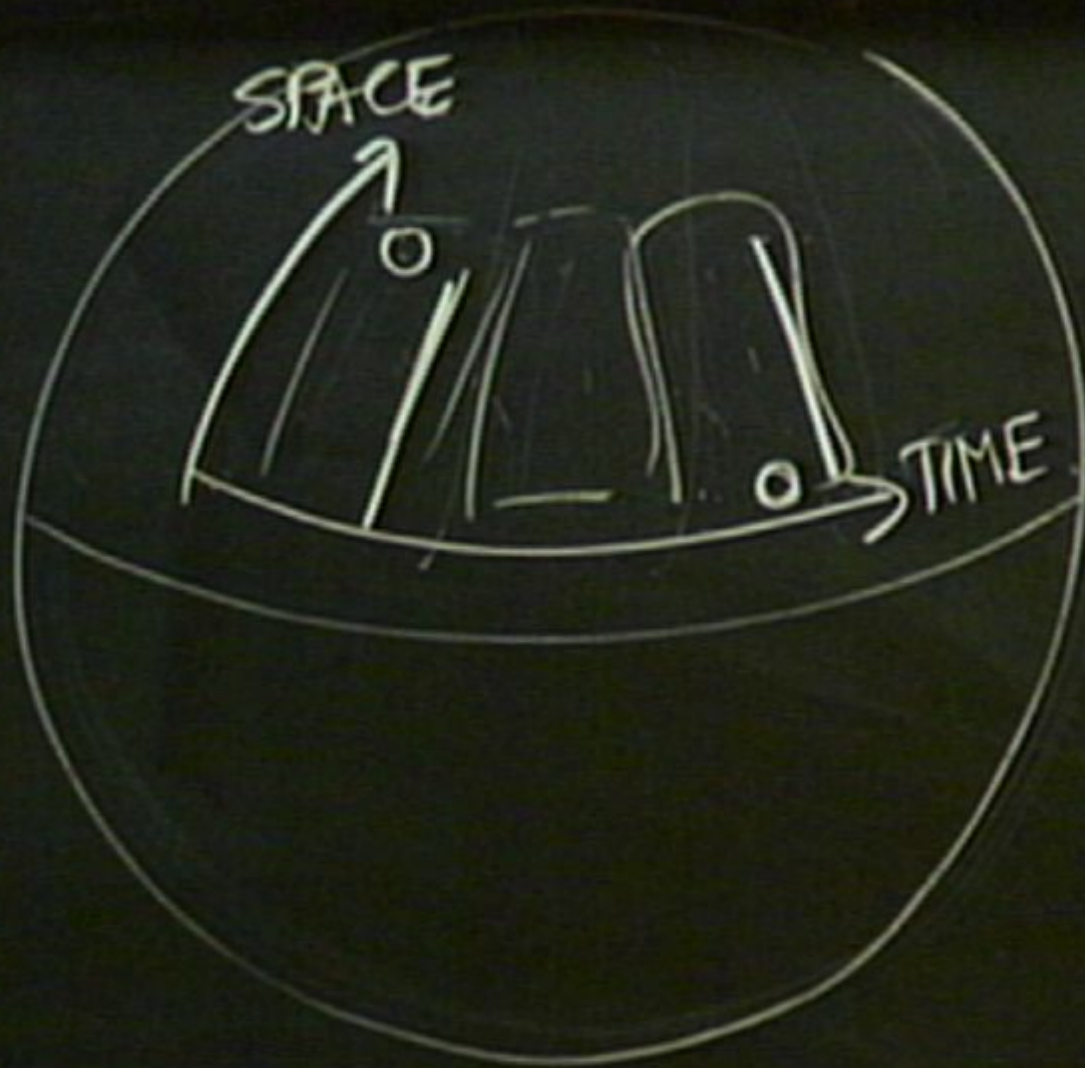
straight $\leftrightarrow$ no accel $\leftrightarrow$ no force

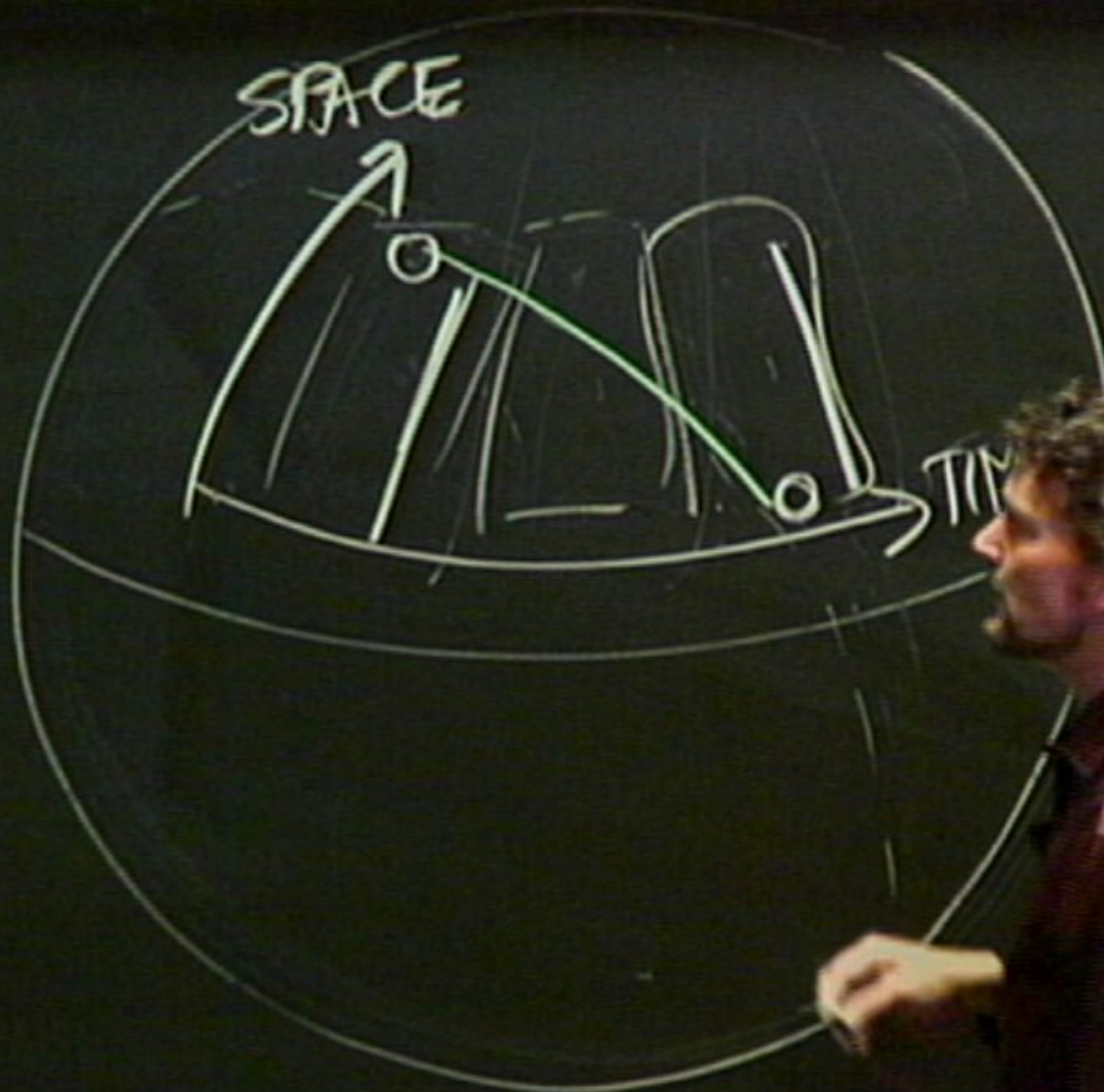
BOB

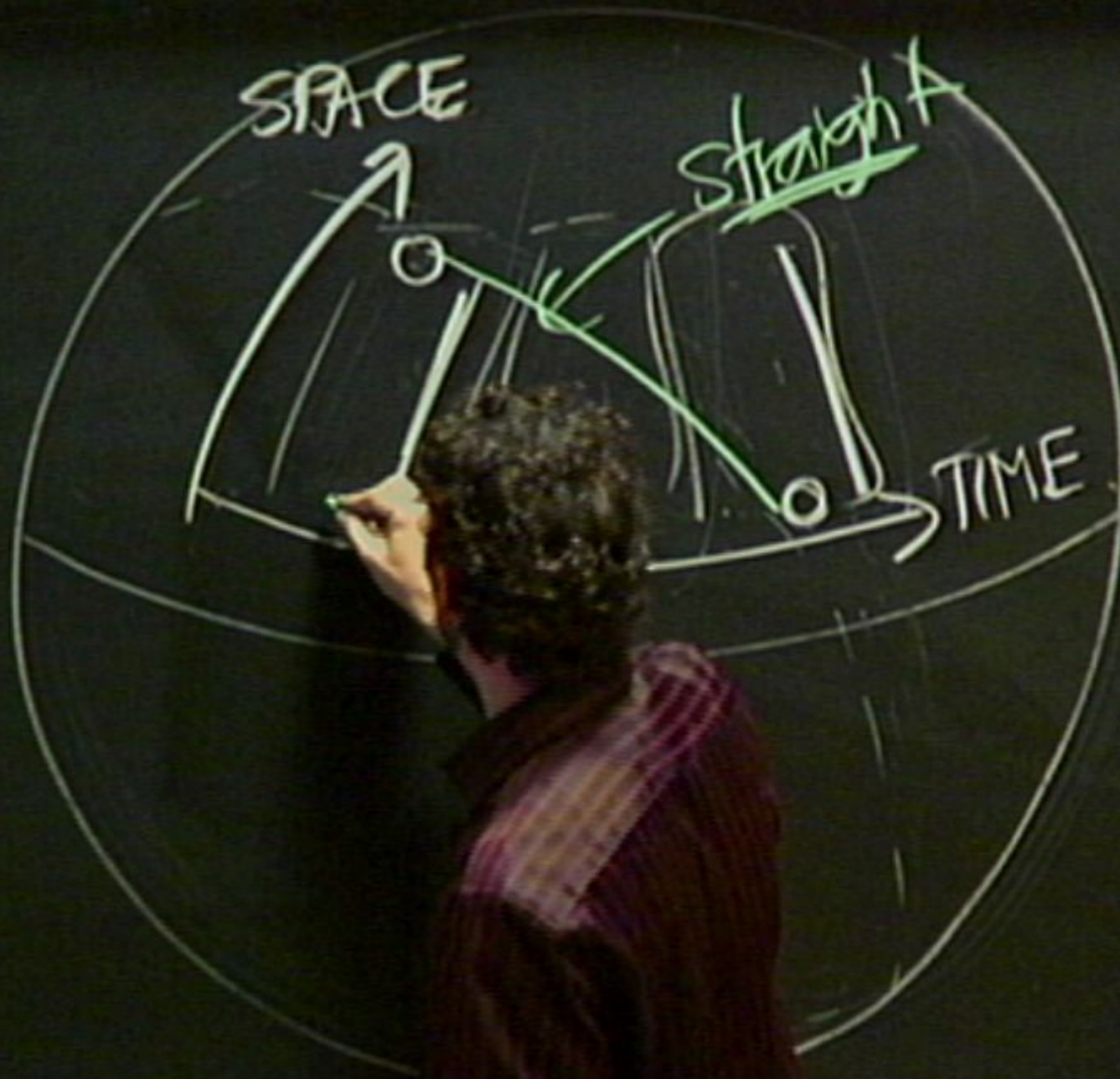


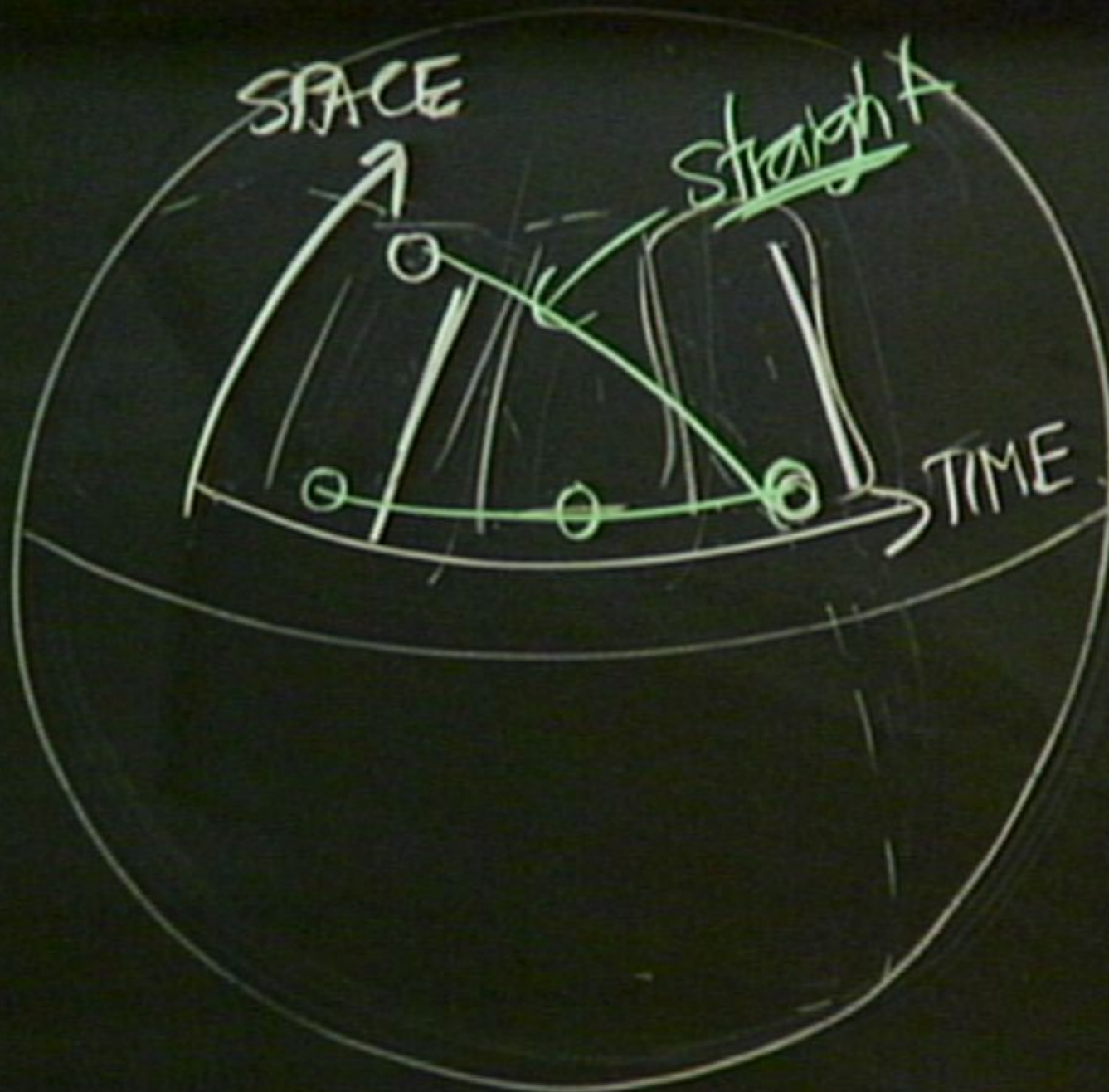


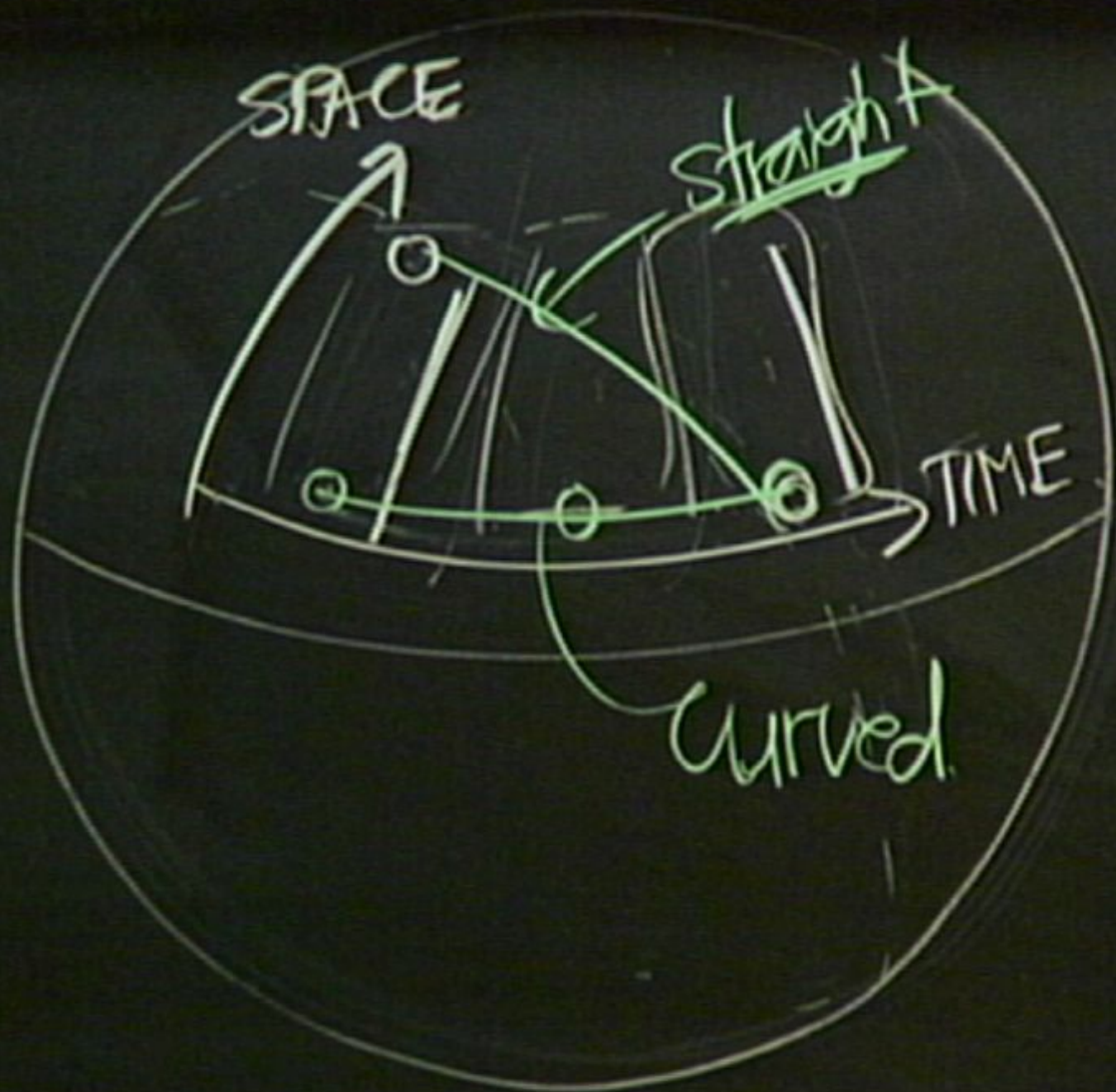
















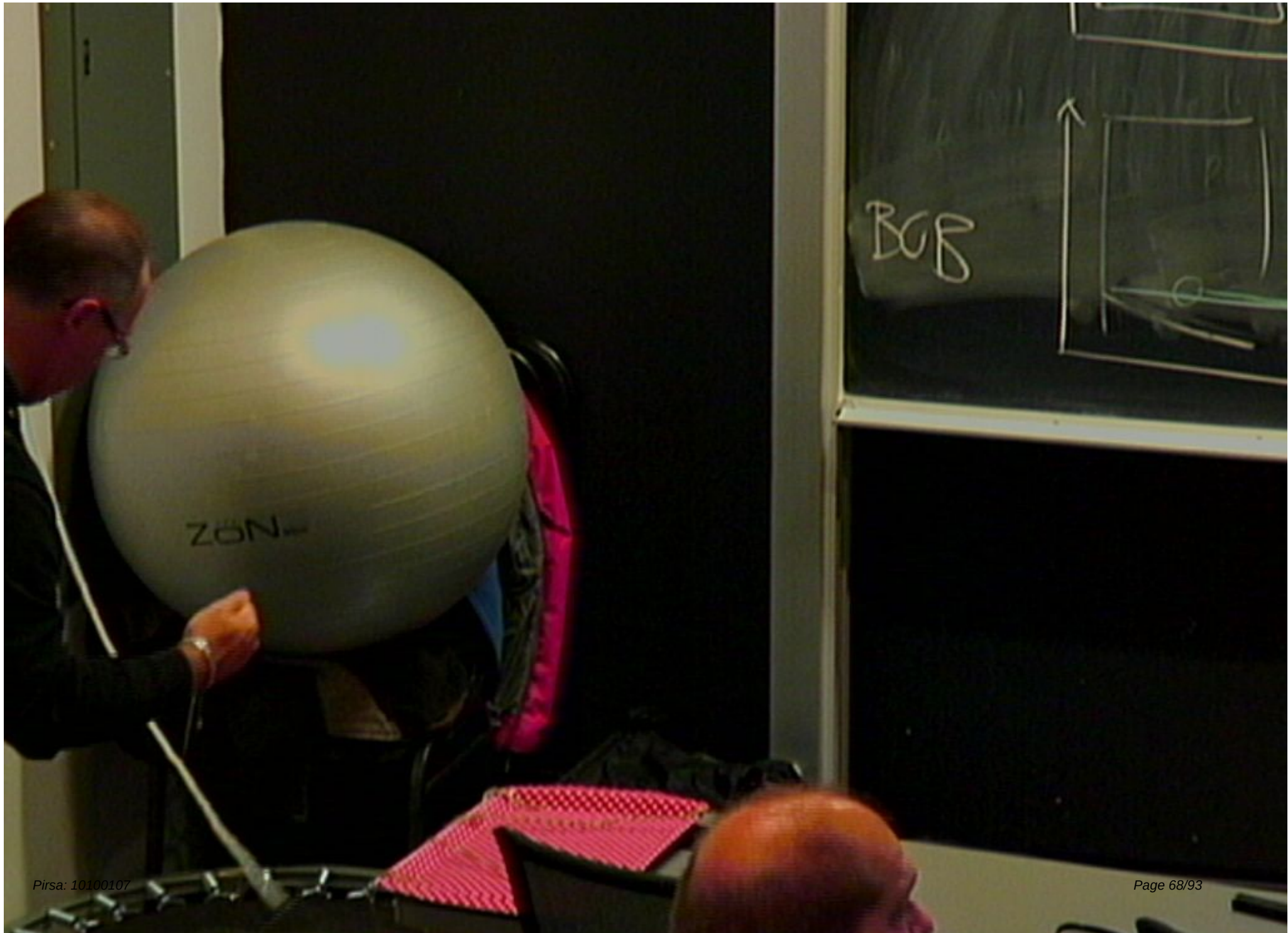


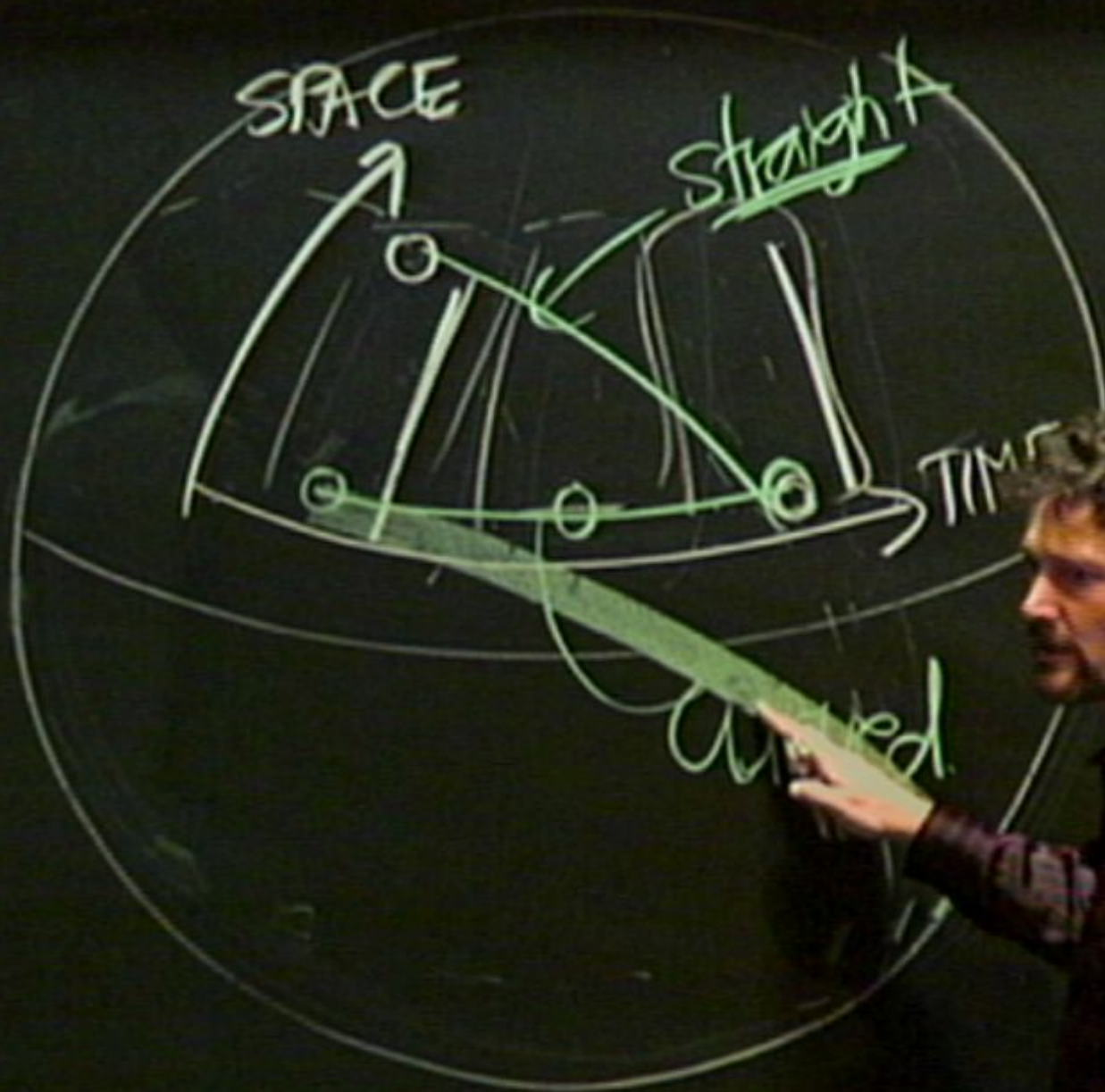


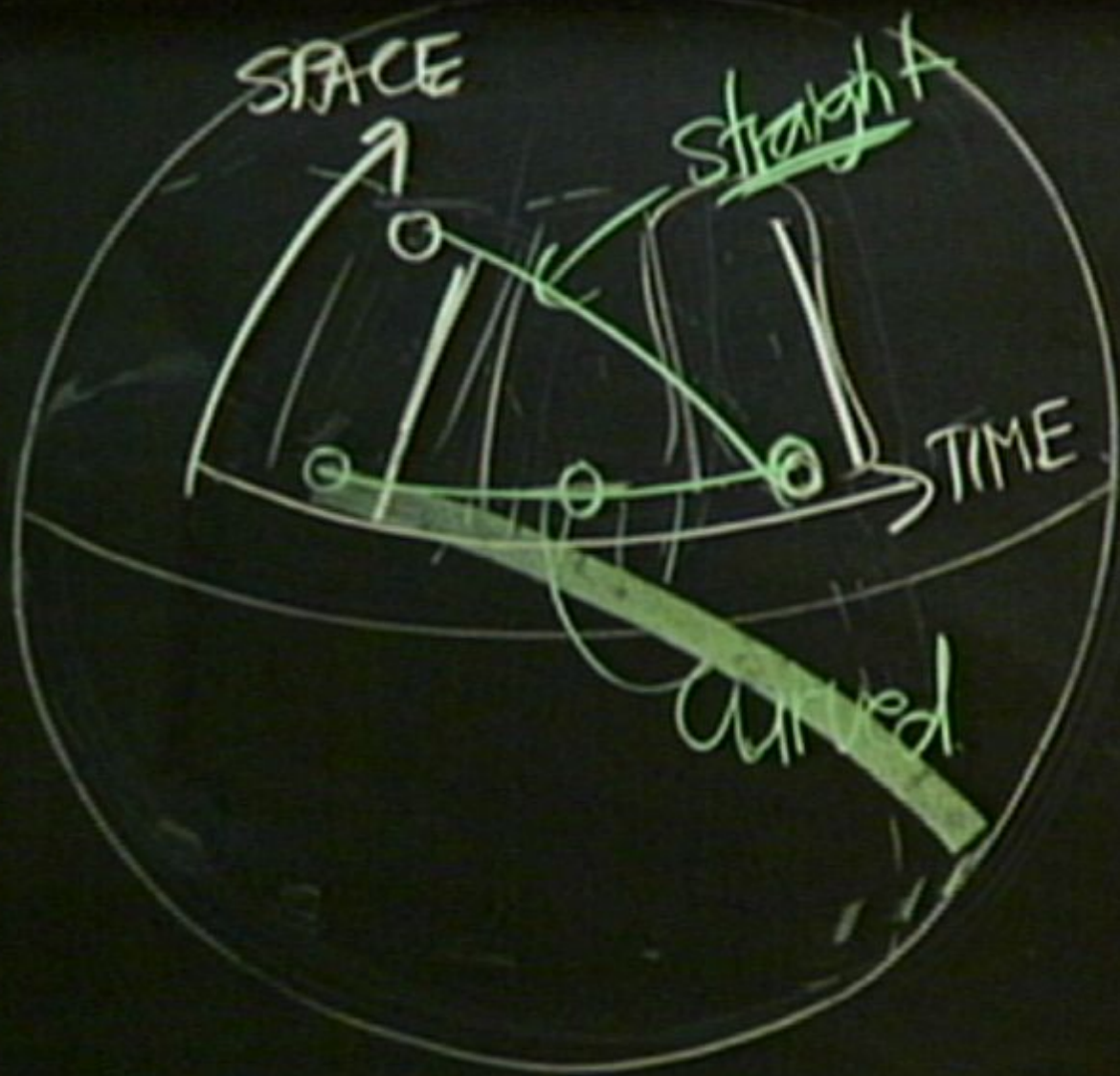








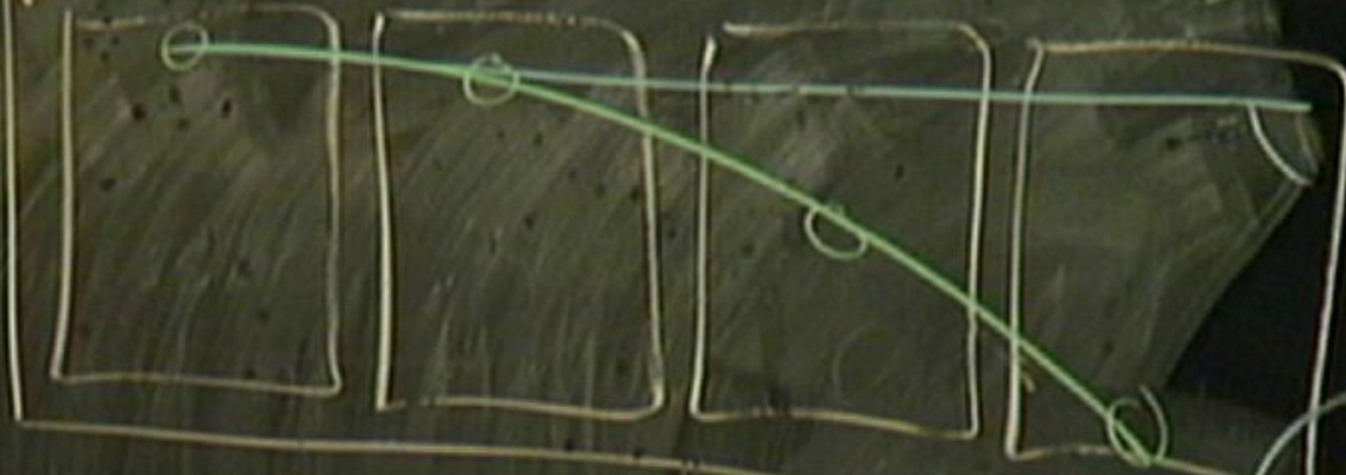




SPACE

curved $\leftrightarrow$ accel $\leftrightarrow$ force

ALICE



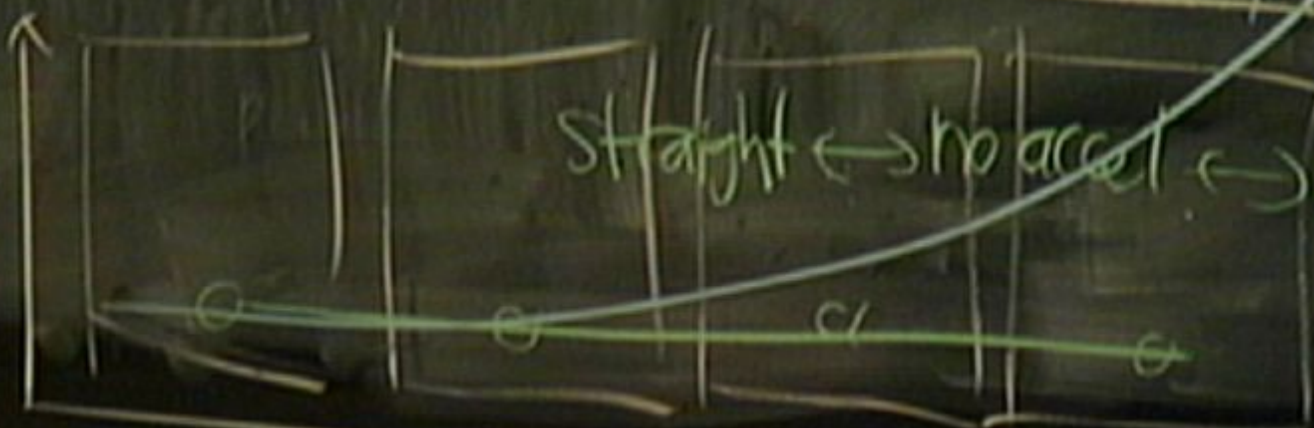
straight

curved

TIME

straight $\leftrightarrow$ no accel $\leftrightarrow$ no force

BOB









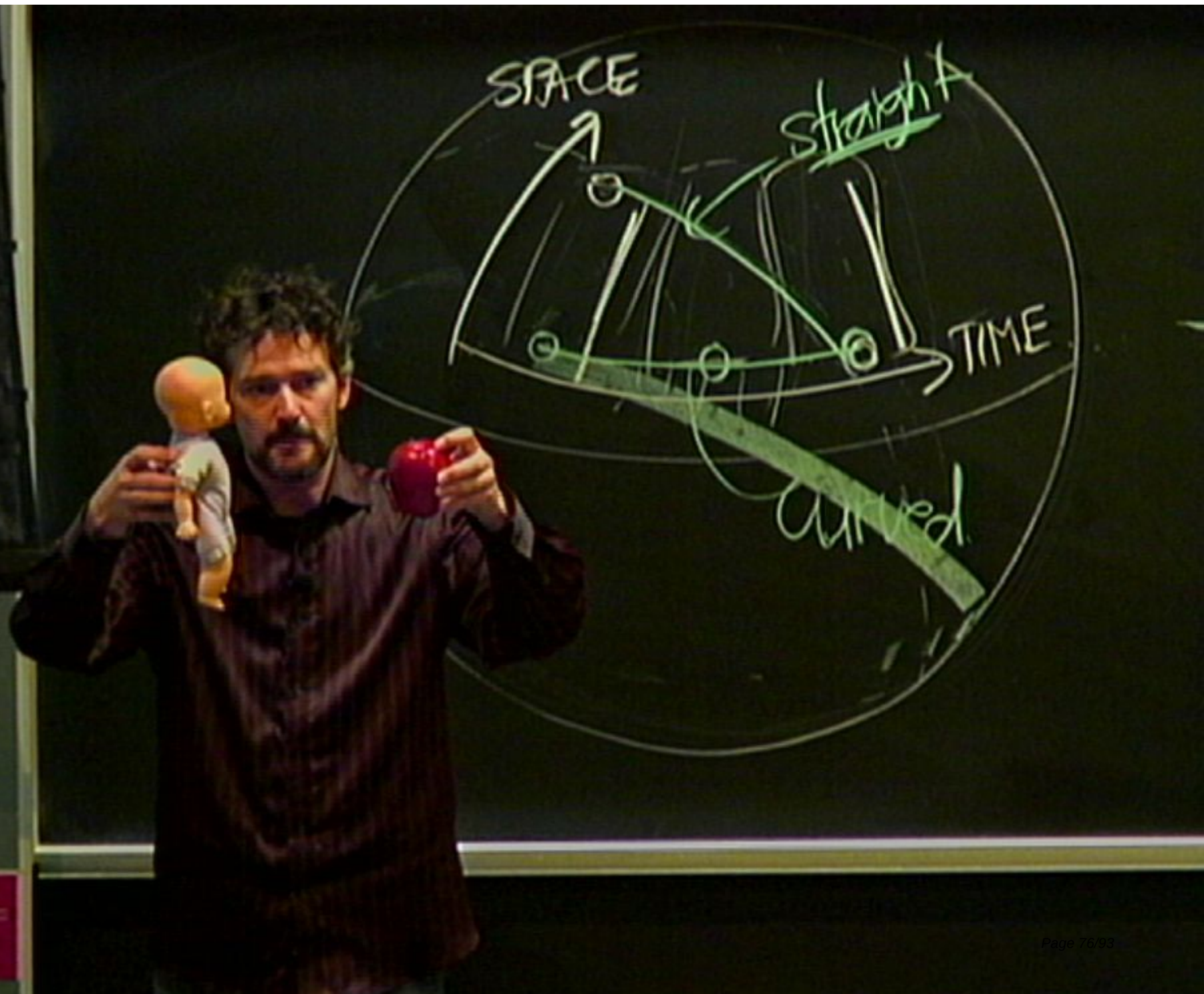
straight

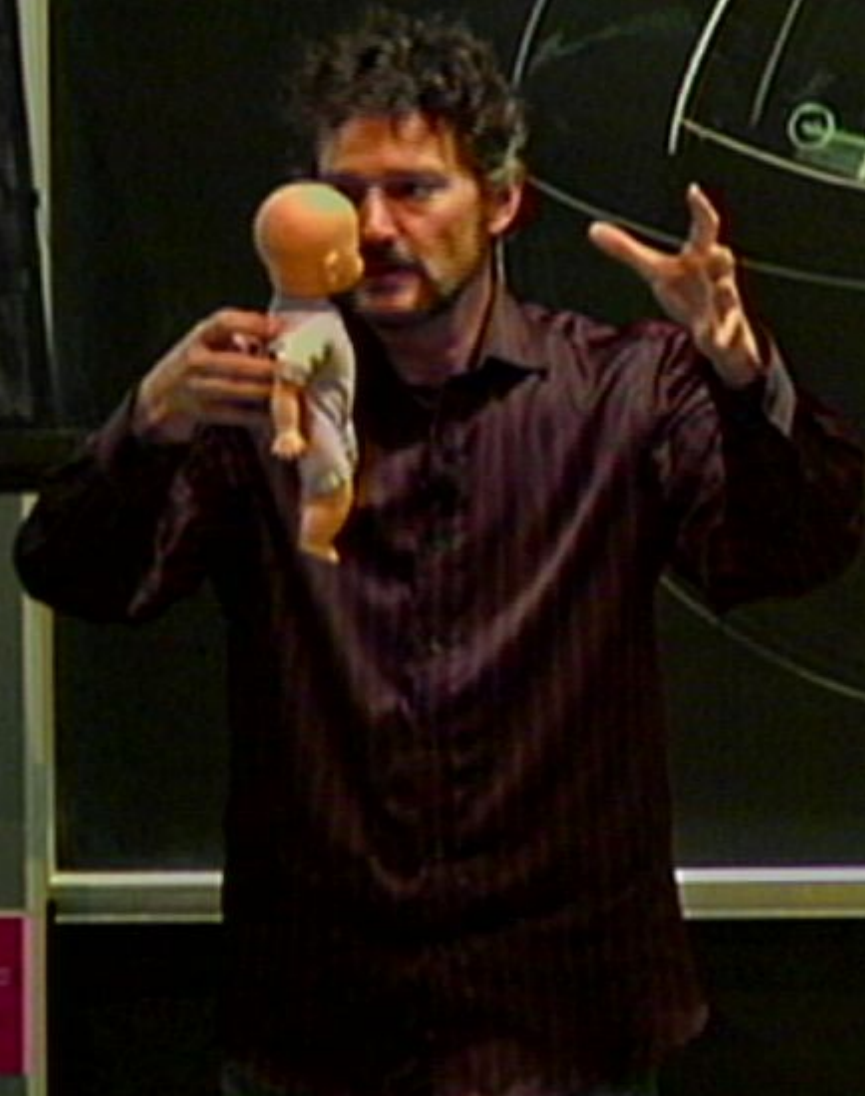
curved

TIME

no force



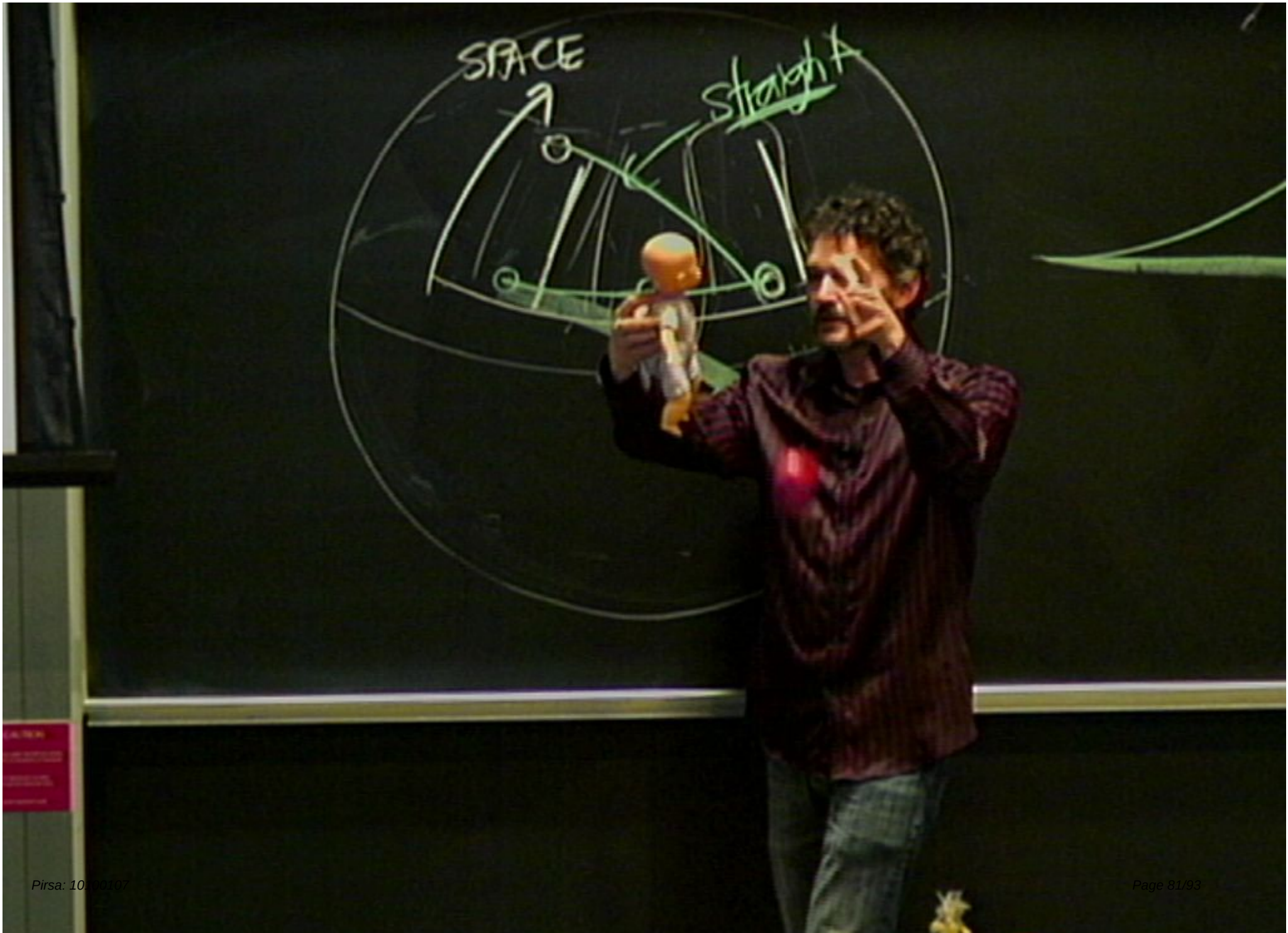


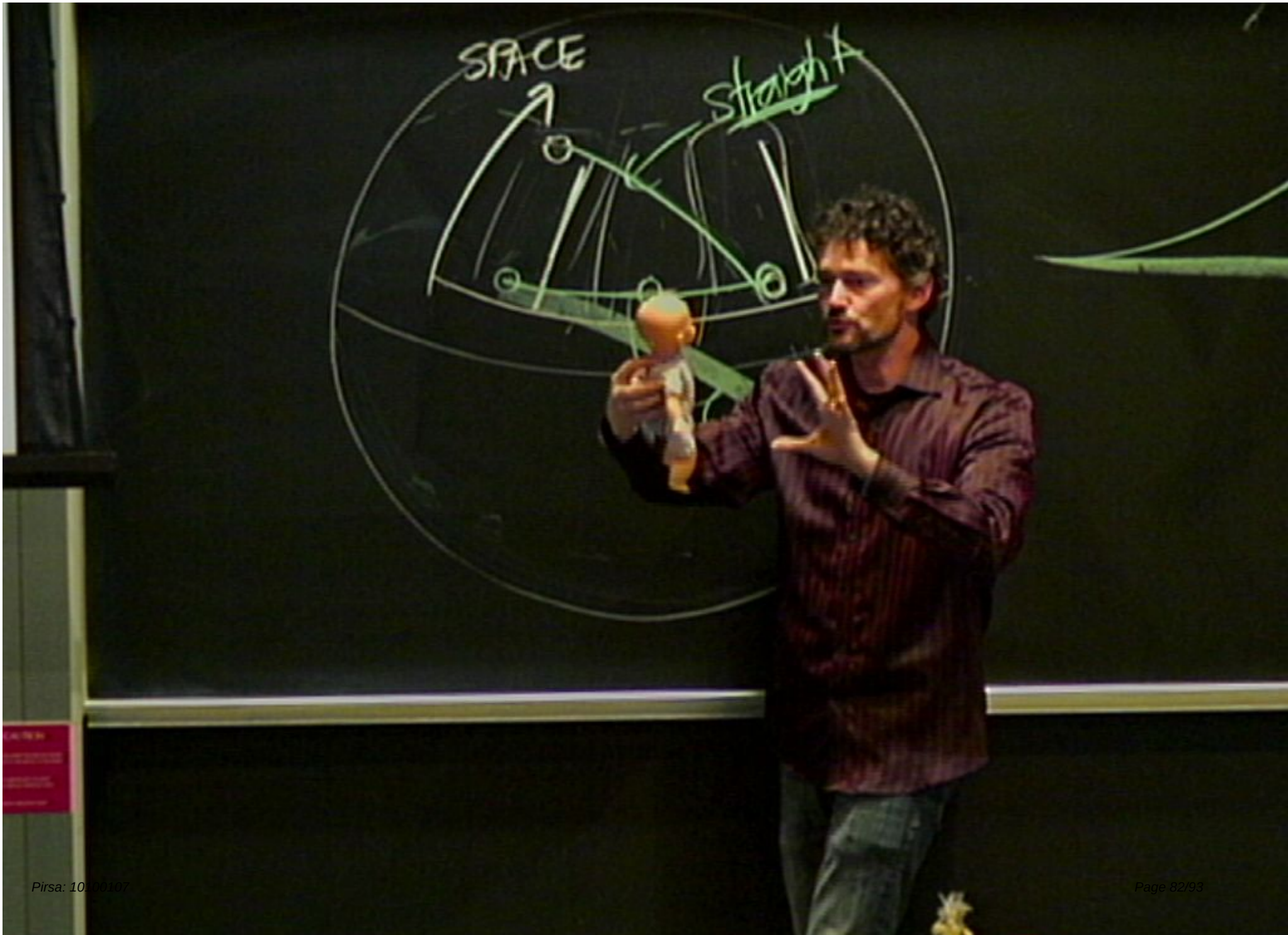




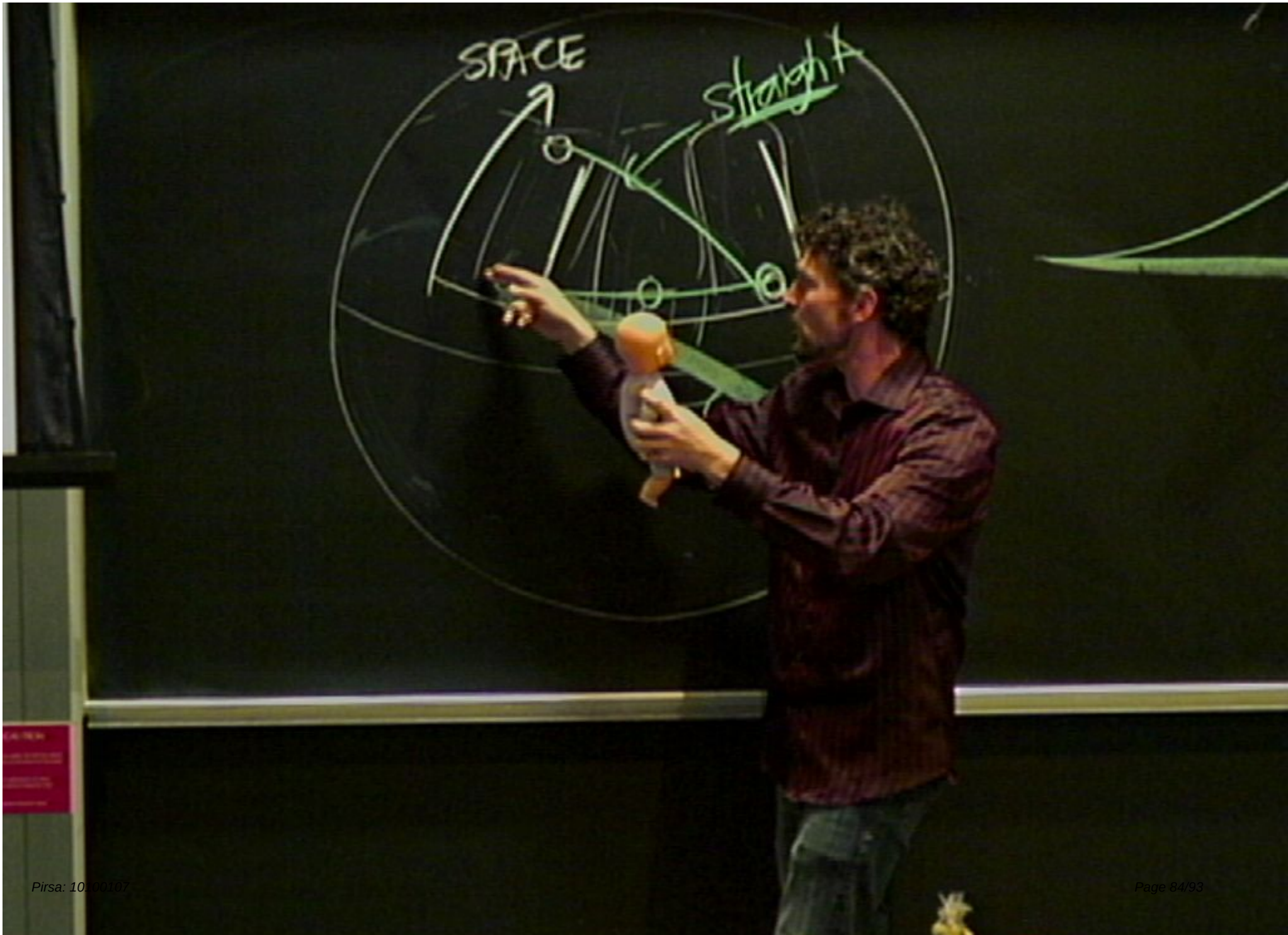
CAUTION
DO NOT TOUCH THE CHALKBOARD
OR THE STUFFED ANIMALS

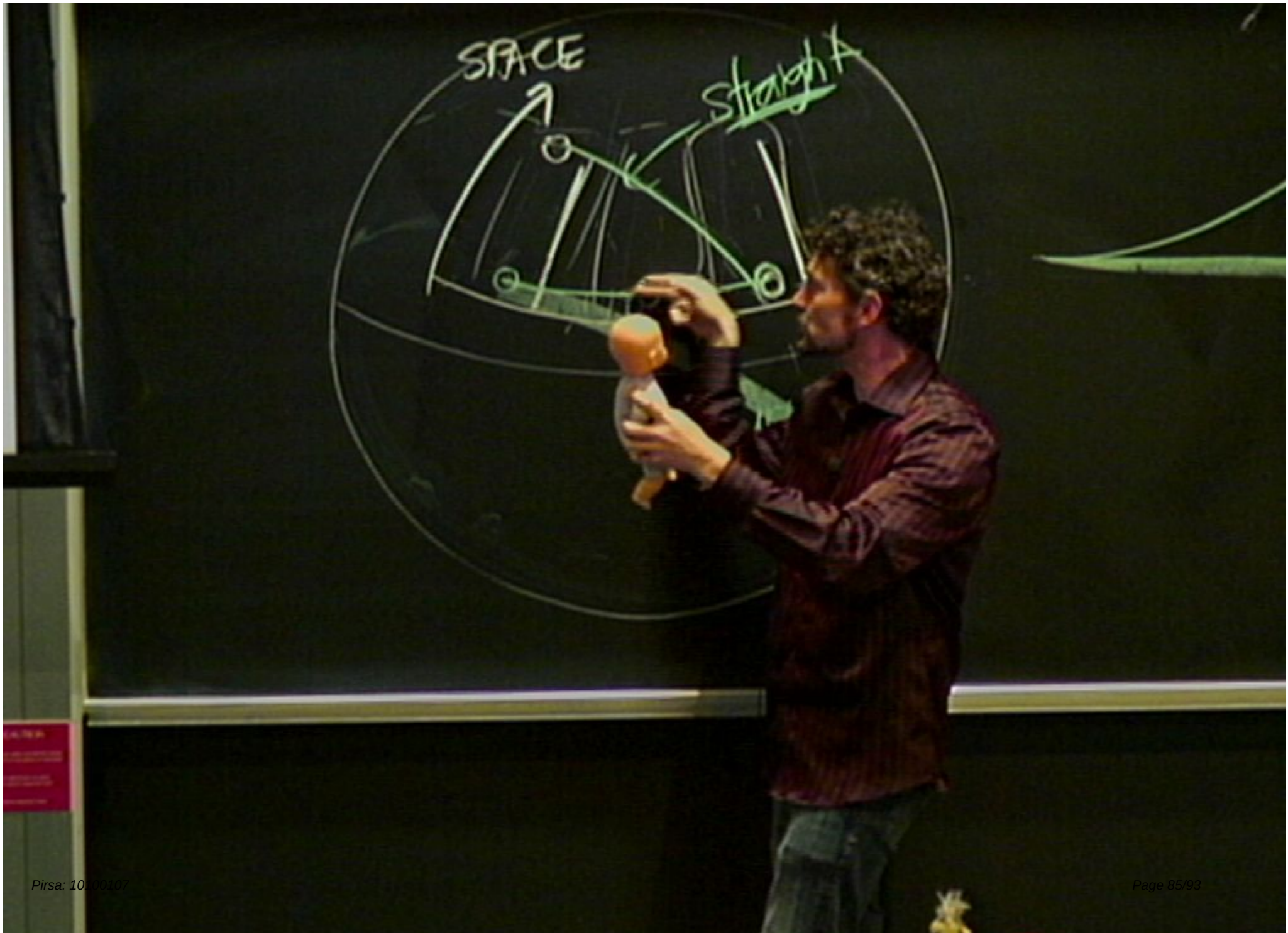


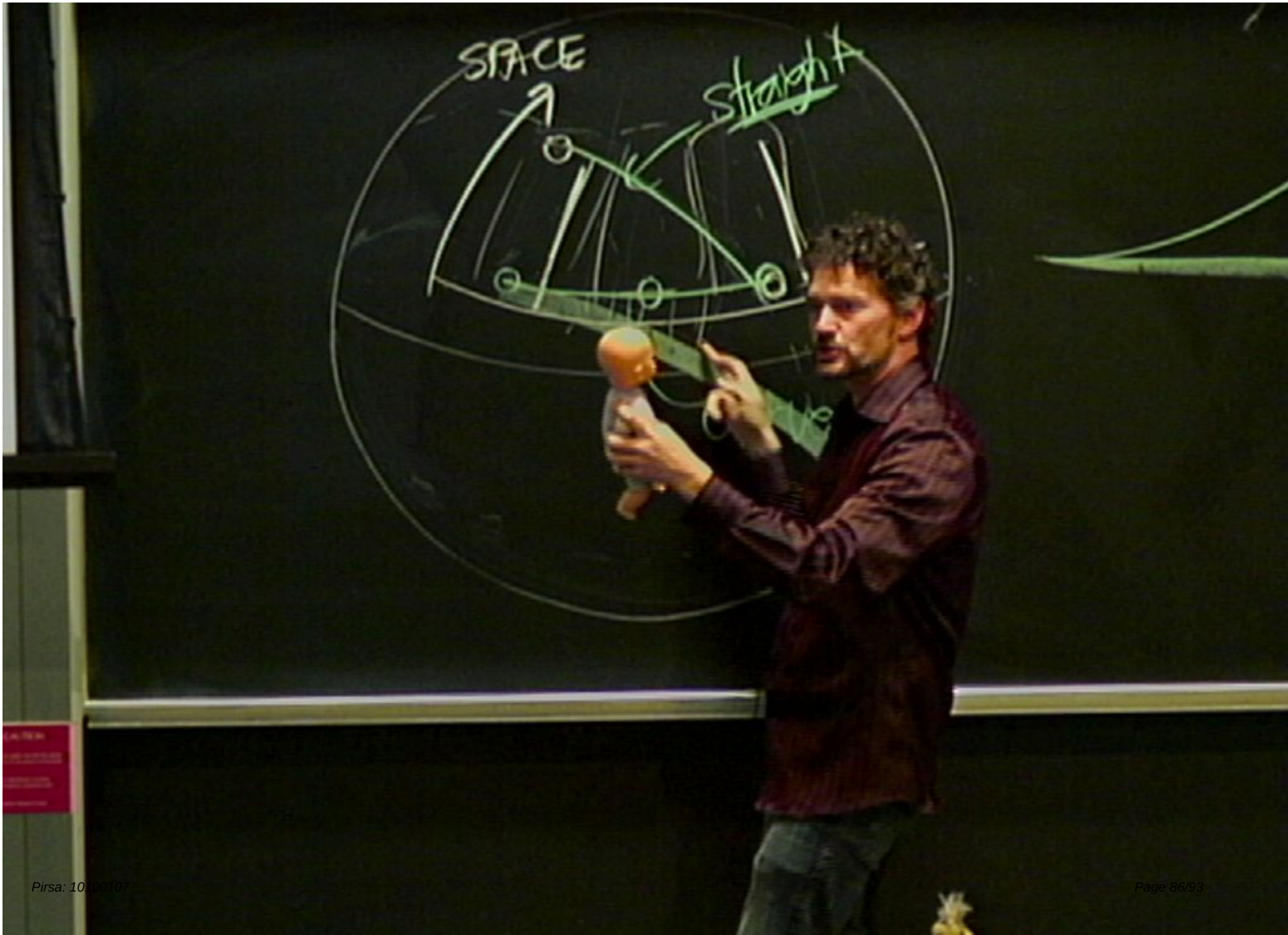


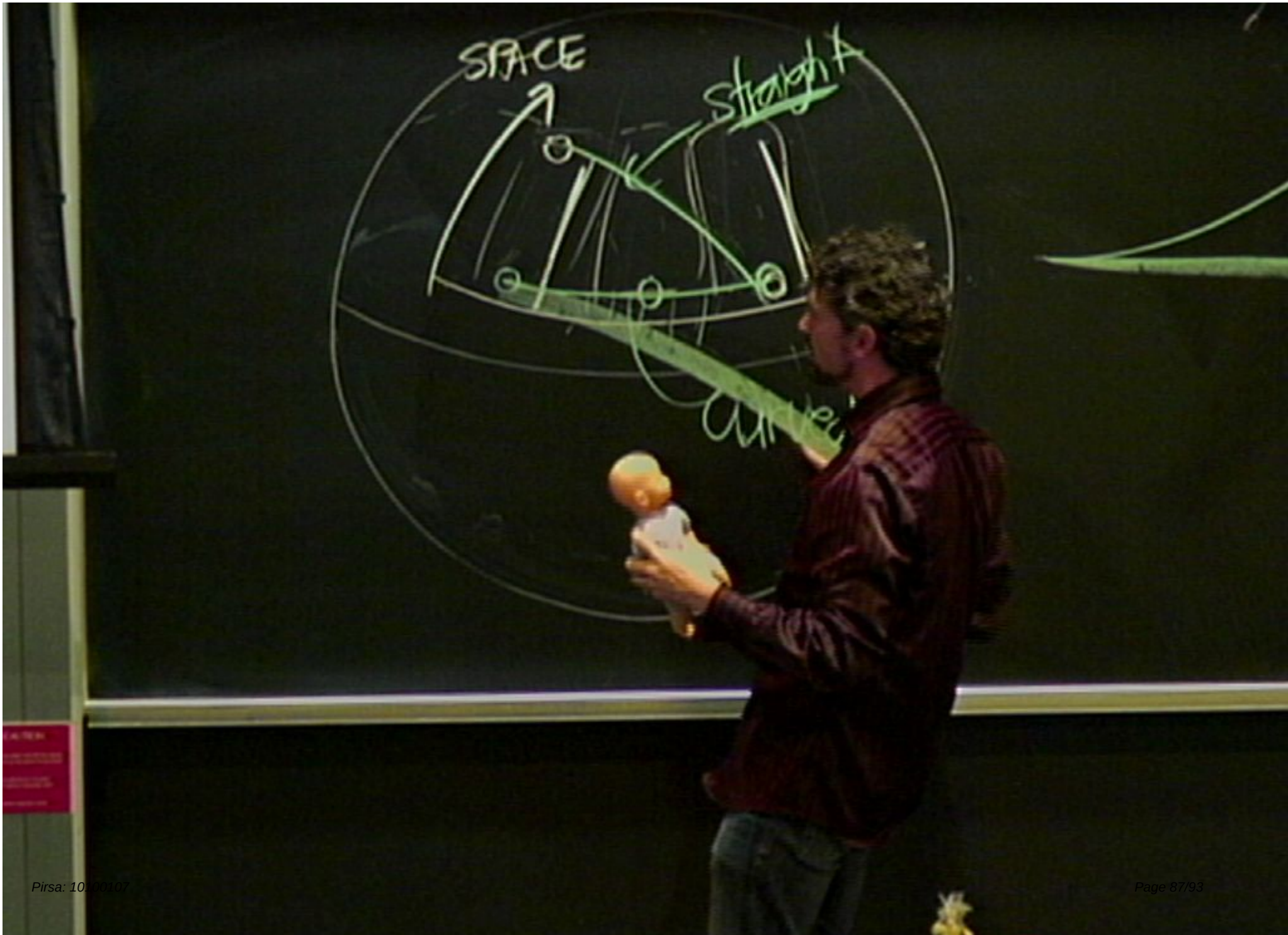


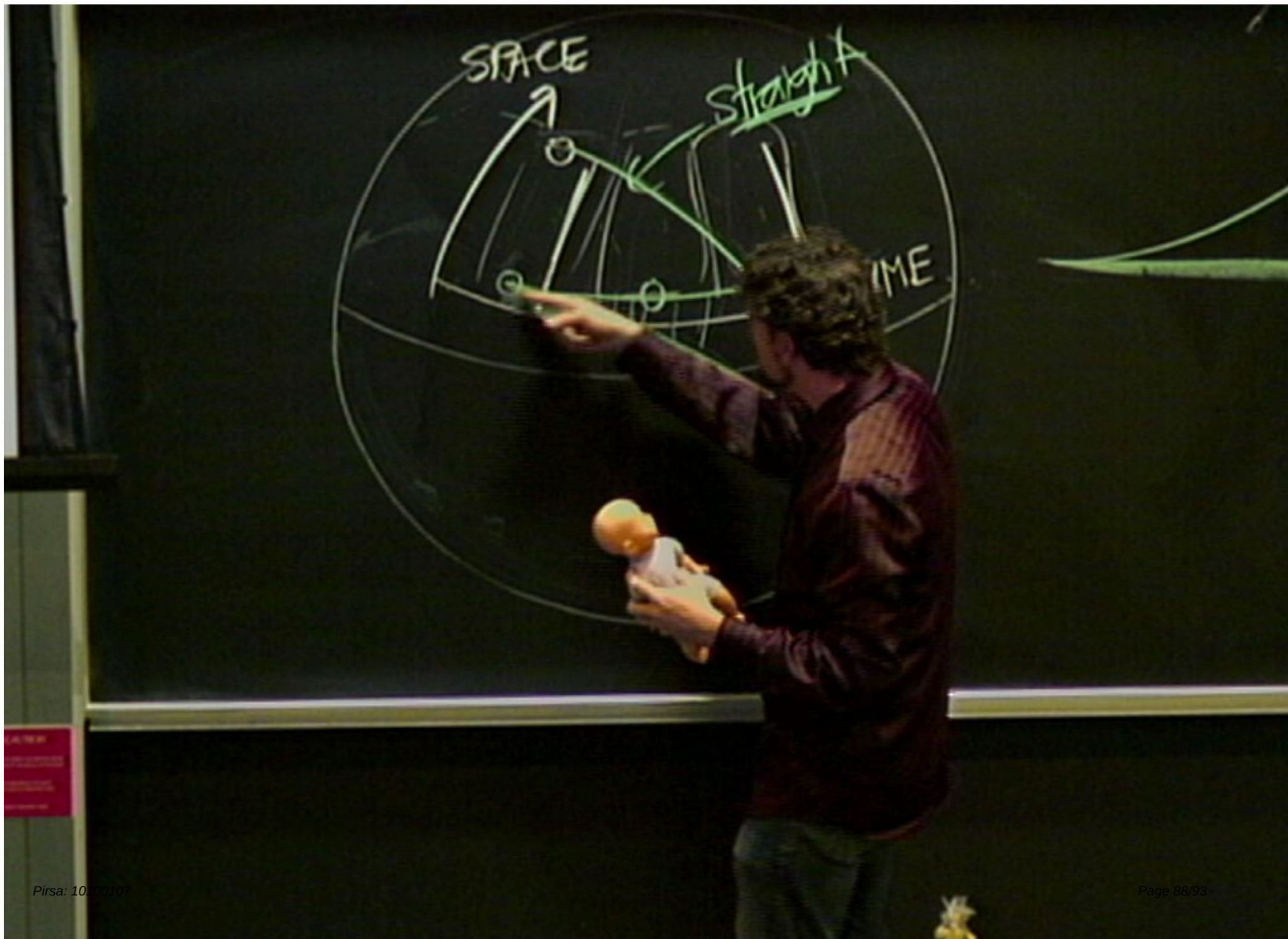


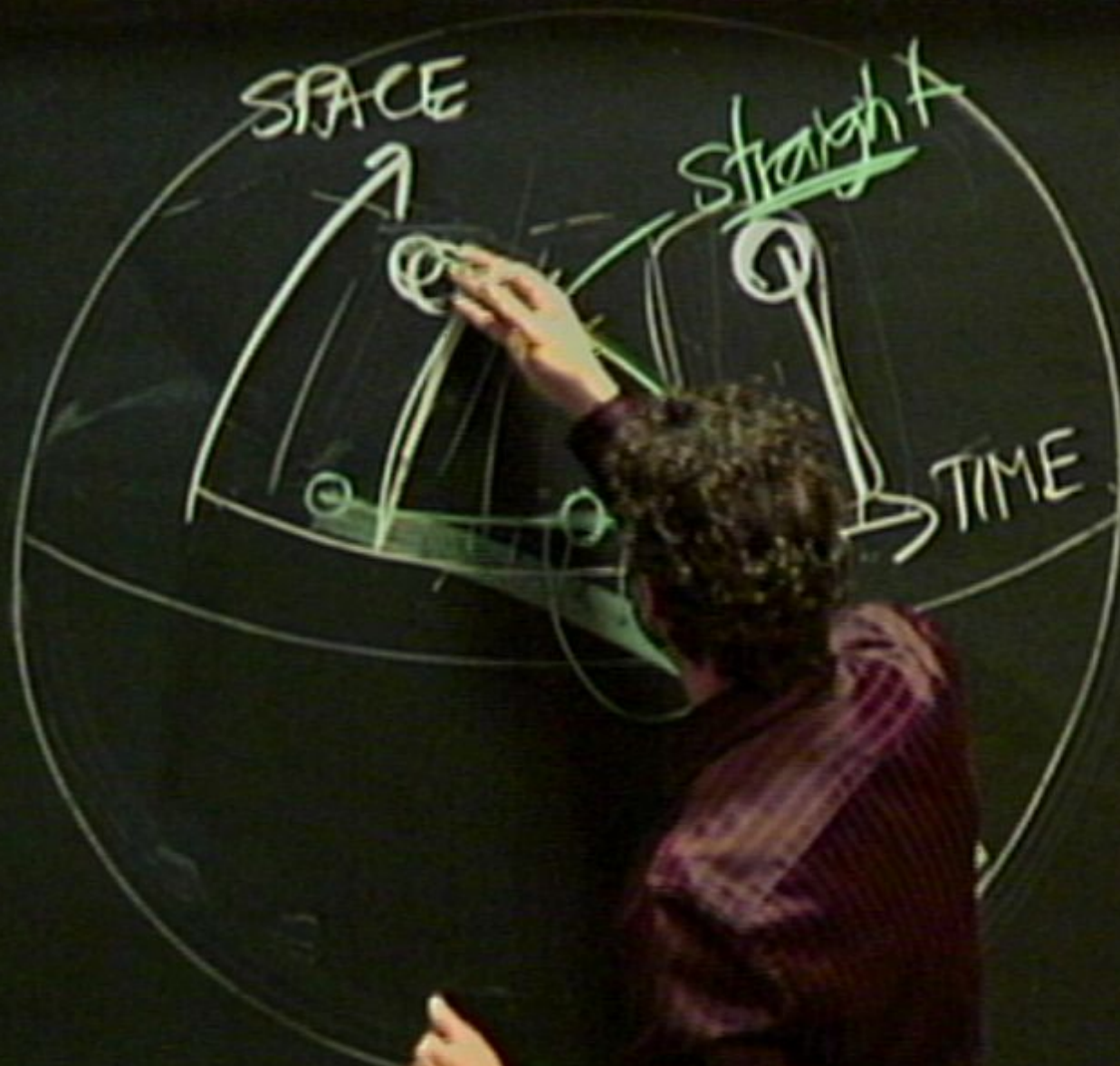


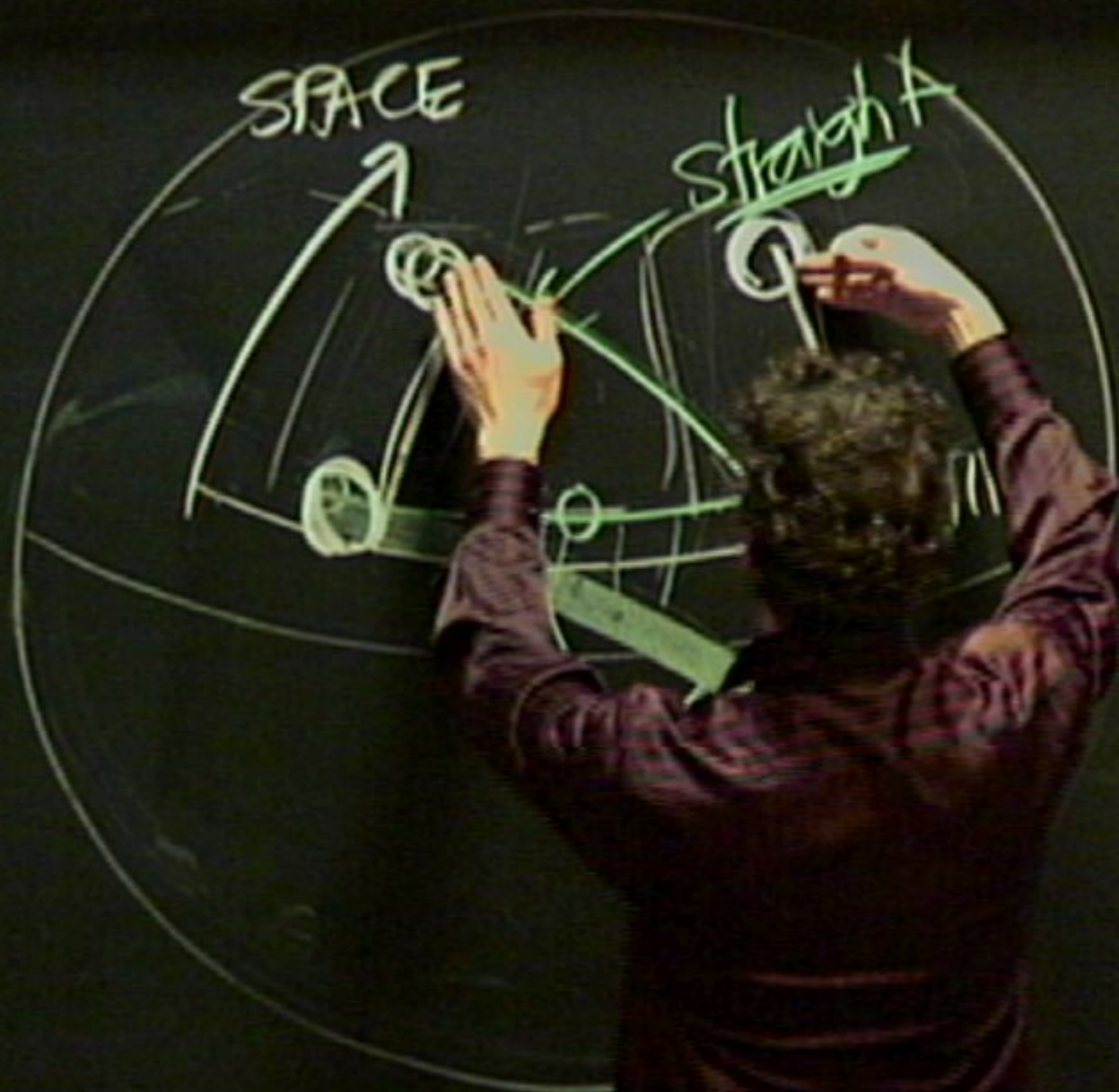


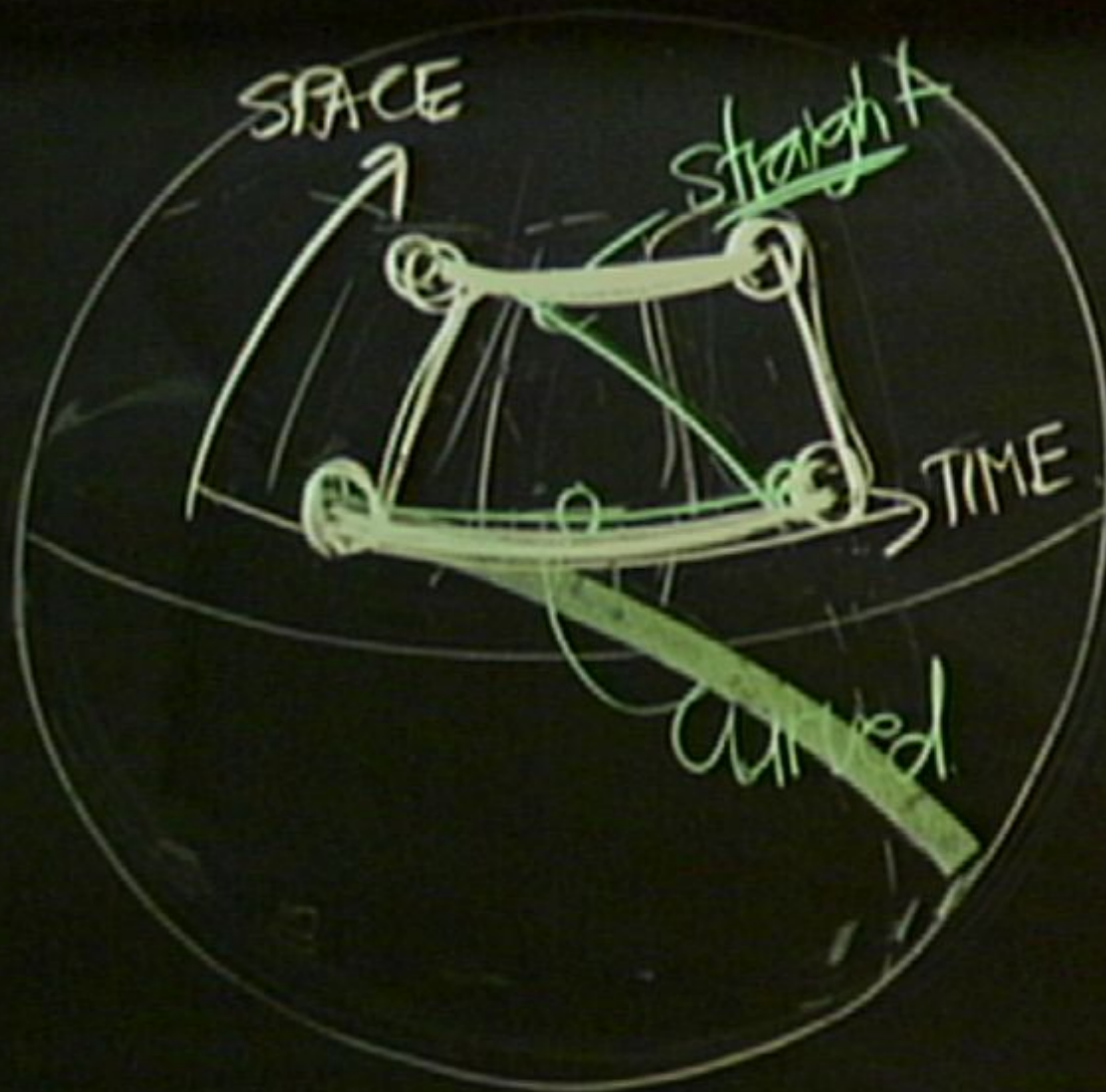












Do-able (Gr. 9)

① 2 models — equally good ?

pulled back in seat (1.)

② accel. ground — how do-able ?

straight line

Do-able (Gr. 9)

① 2 models — equally good ?

pulled back in seat (accel.)

② accel. ground — how possible ?

straight line

