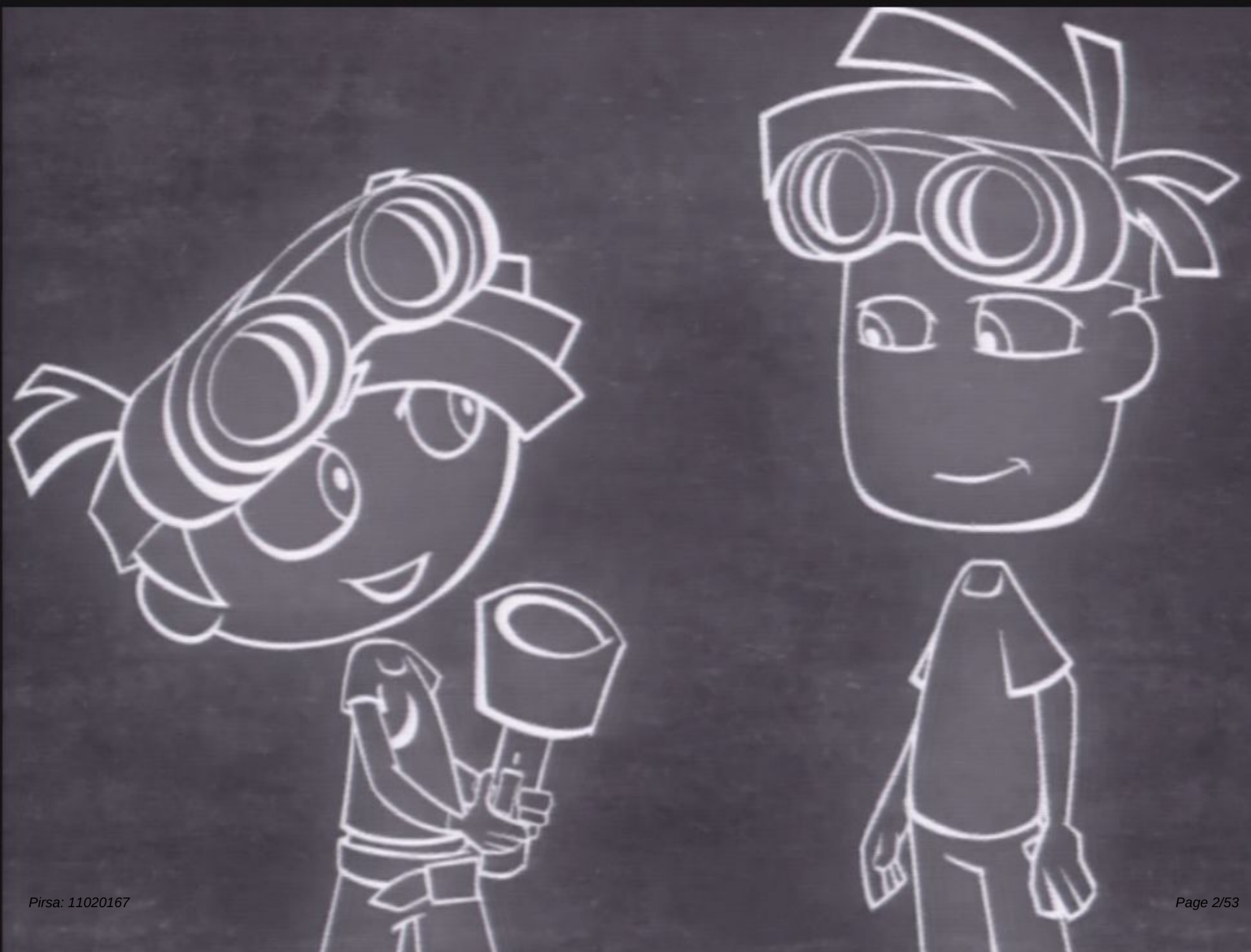


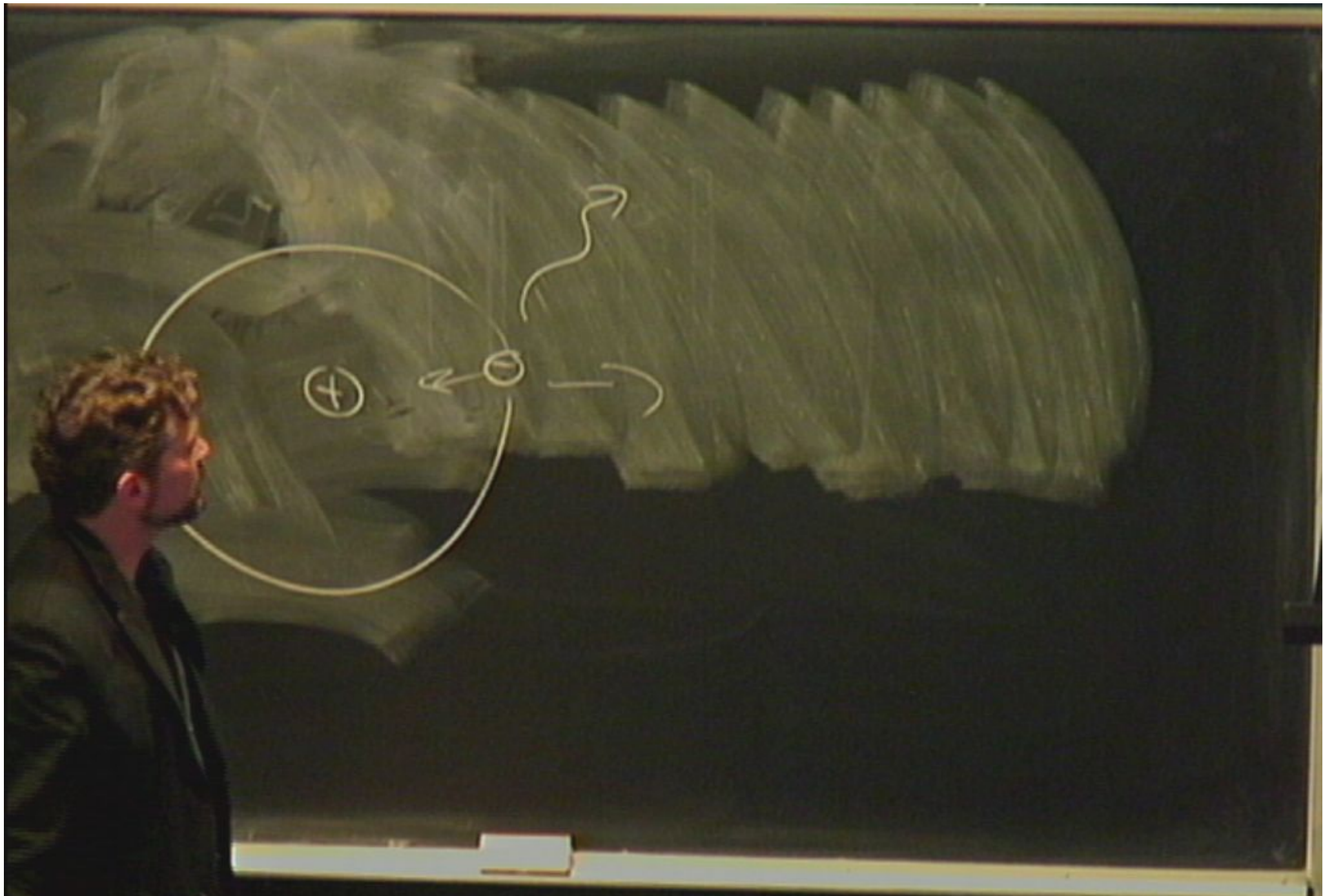
Title: Go Physics - Modern Physics Part 2: Quantum Theory

Date: Feb 26, 2011 12:30 PM

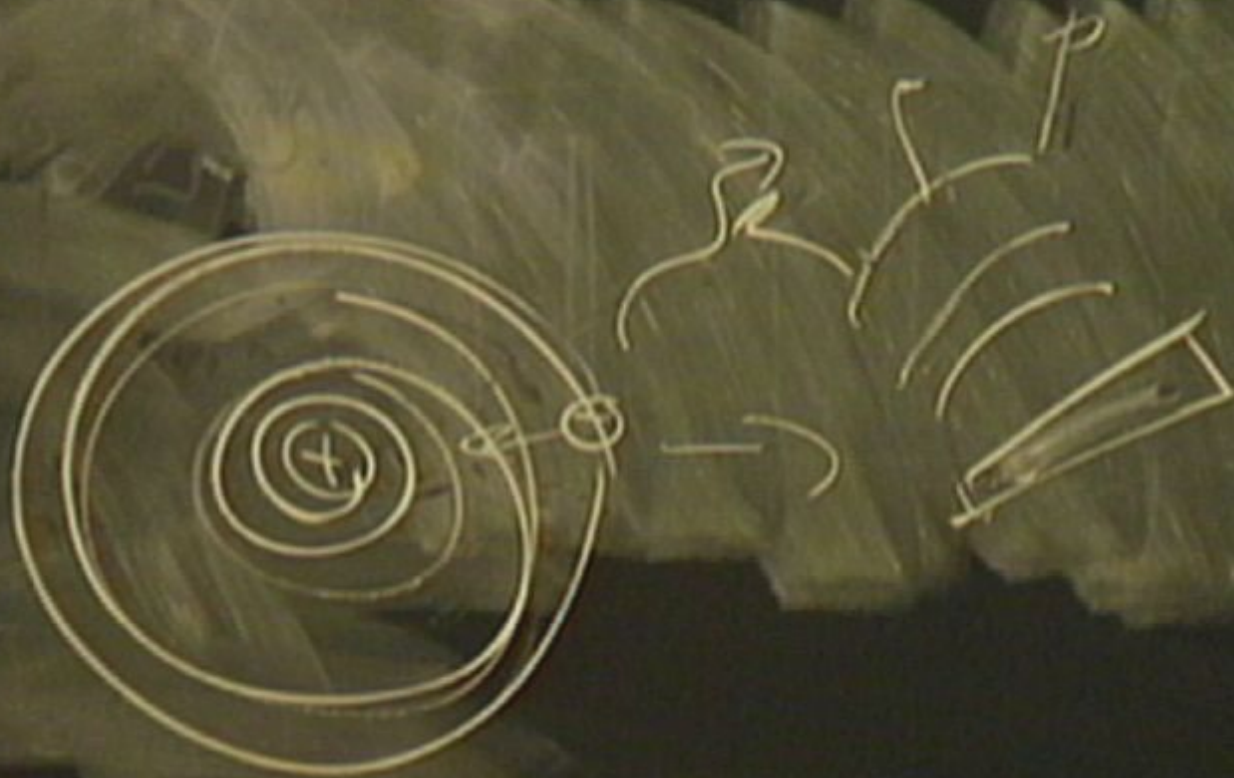
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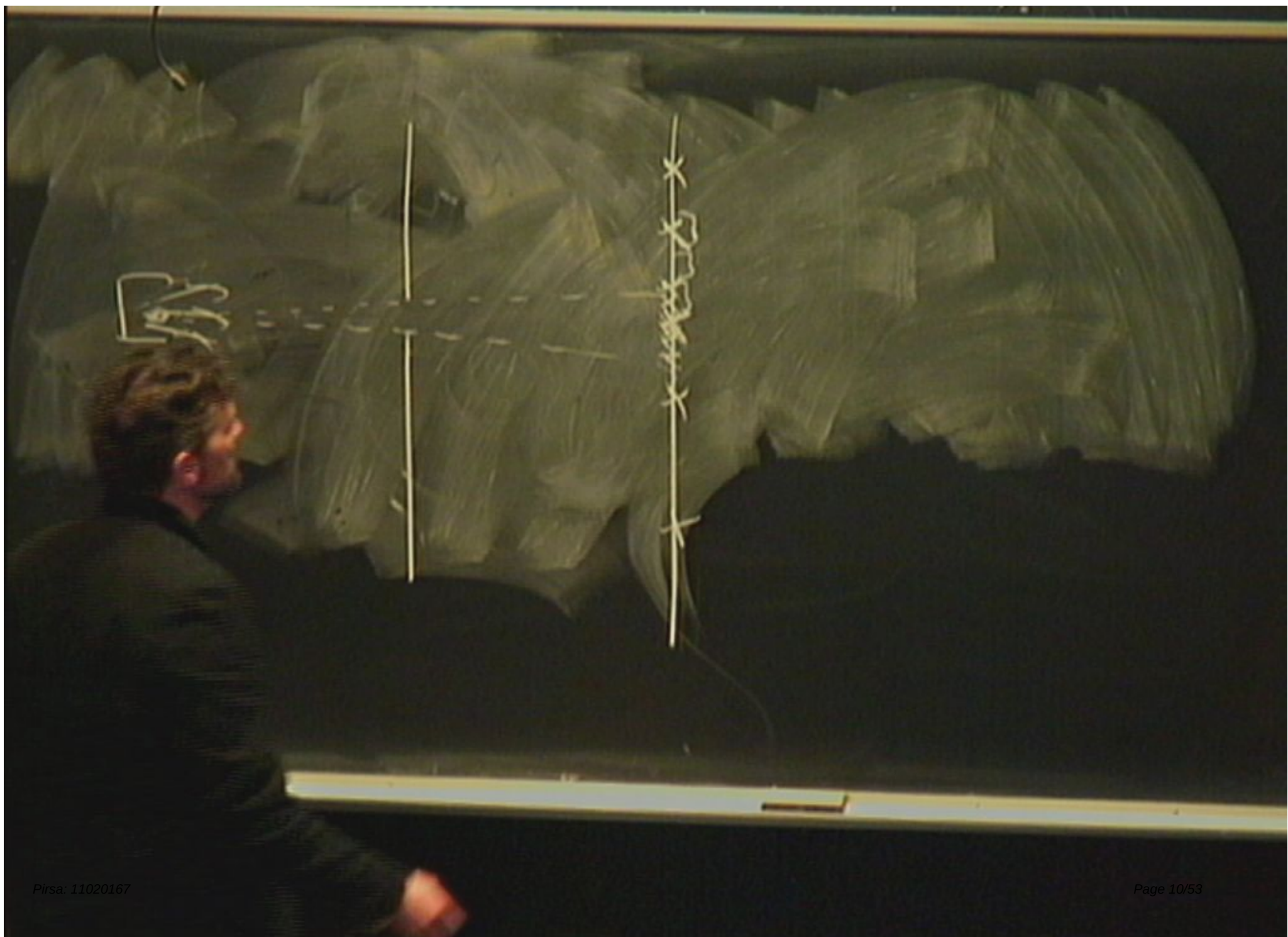


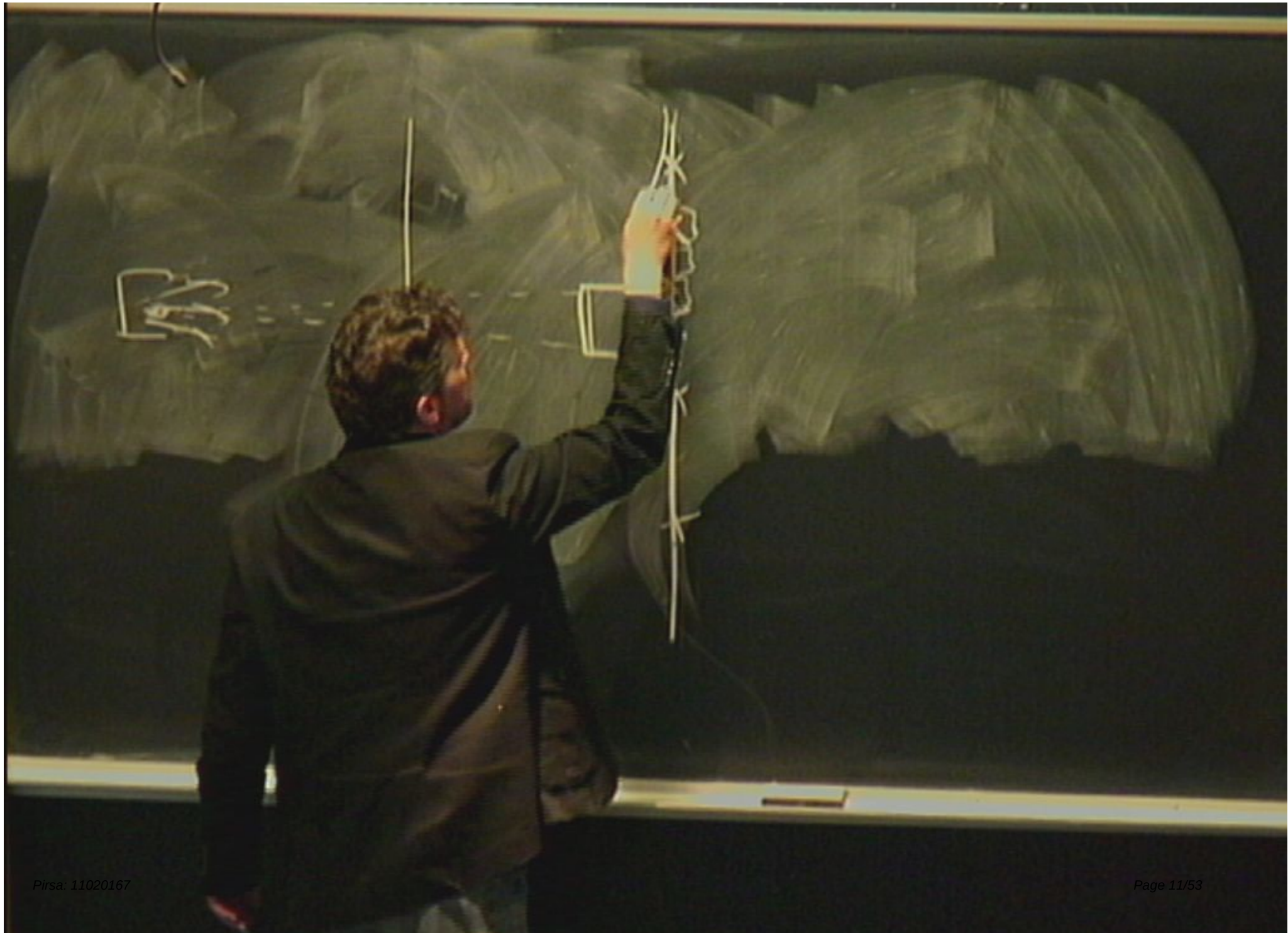


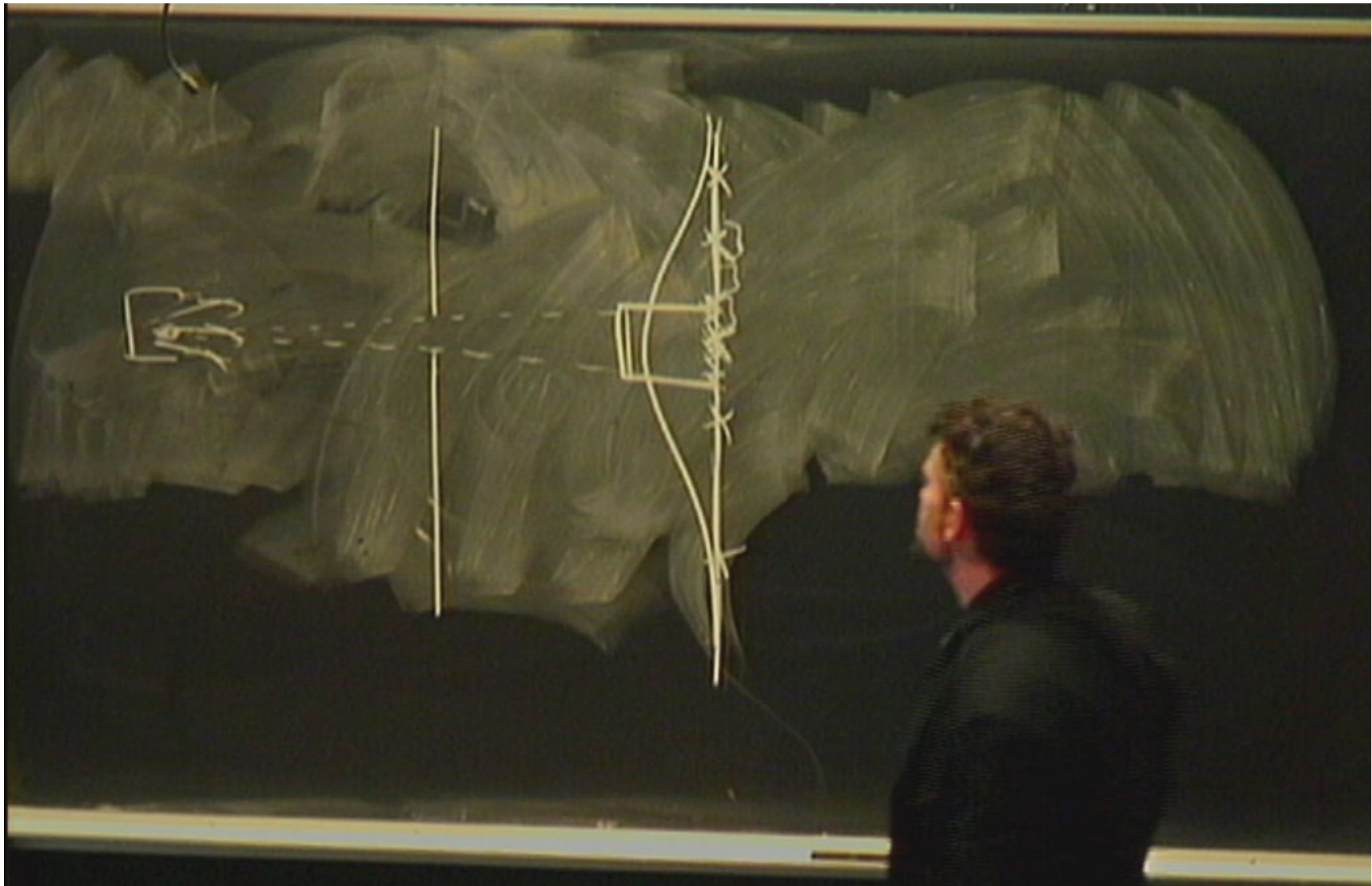


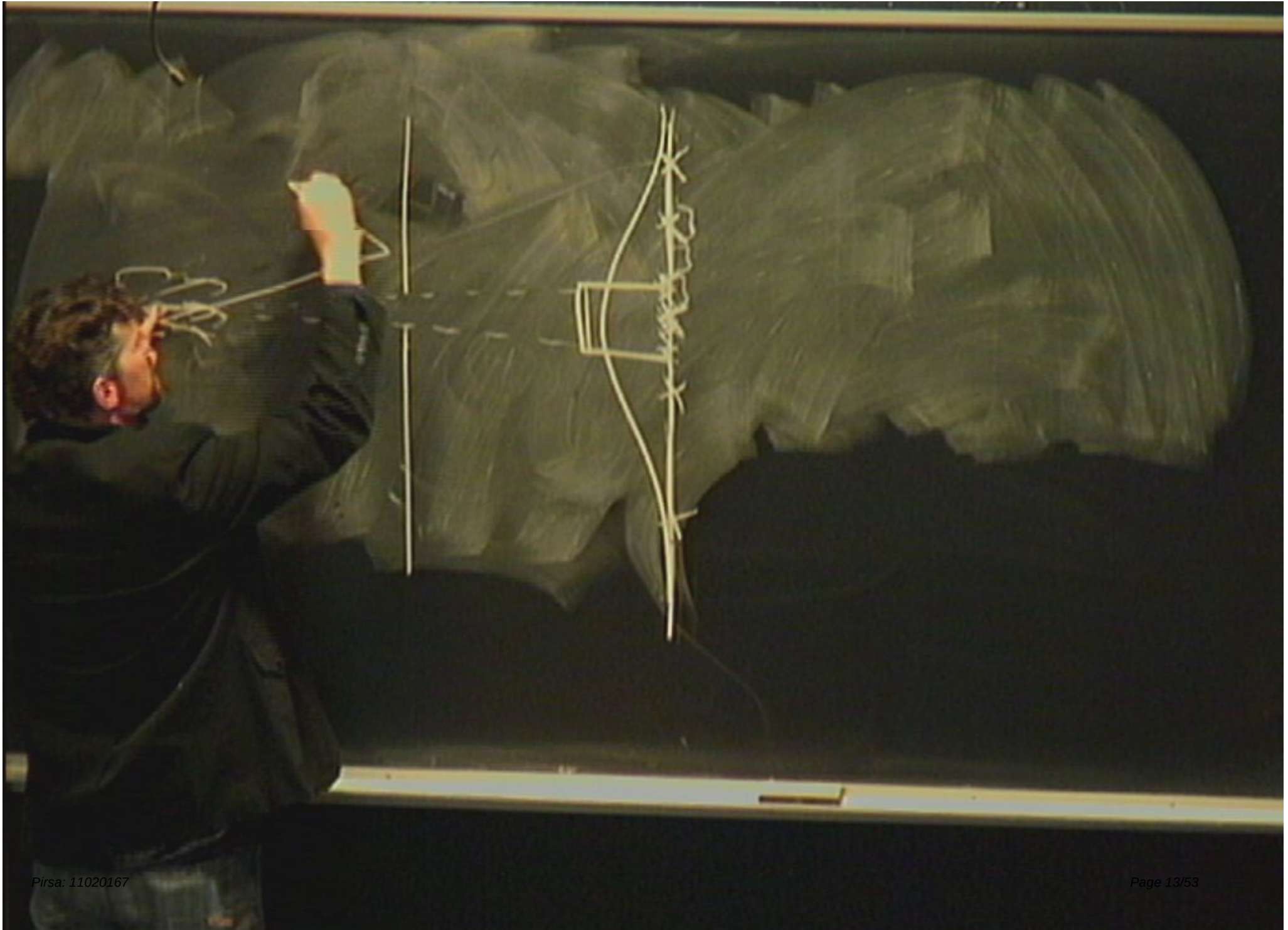


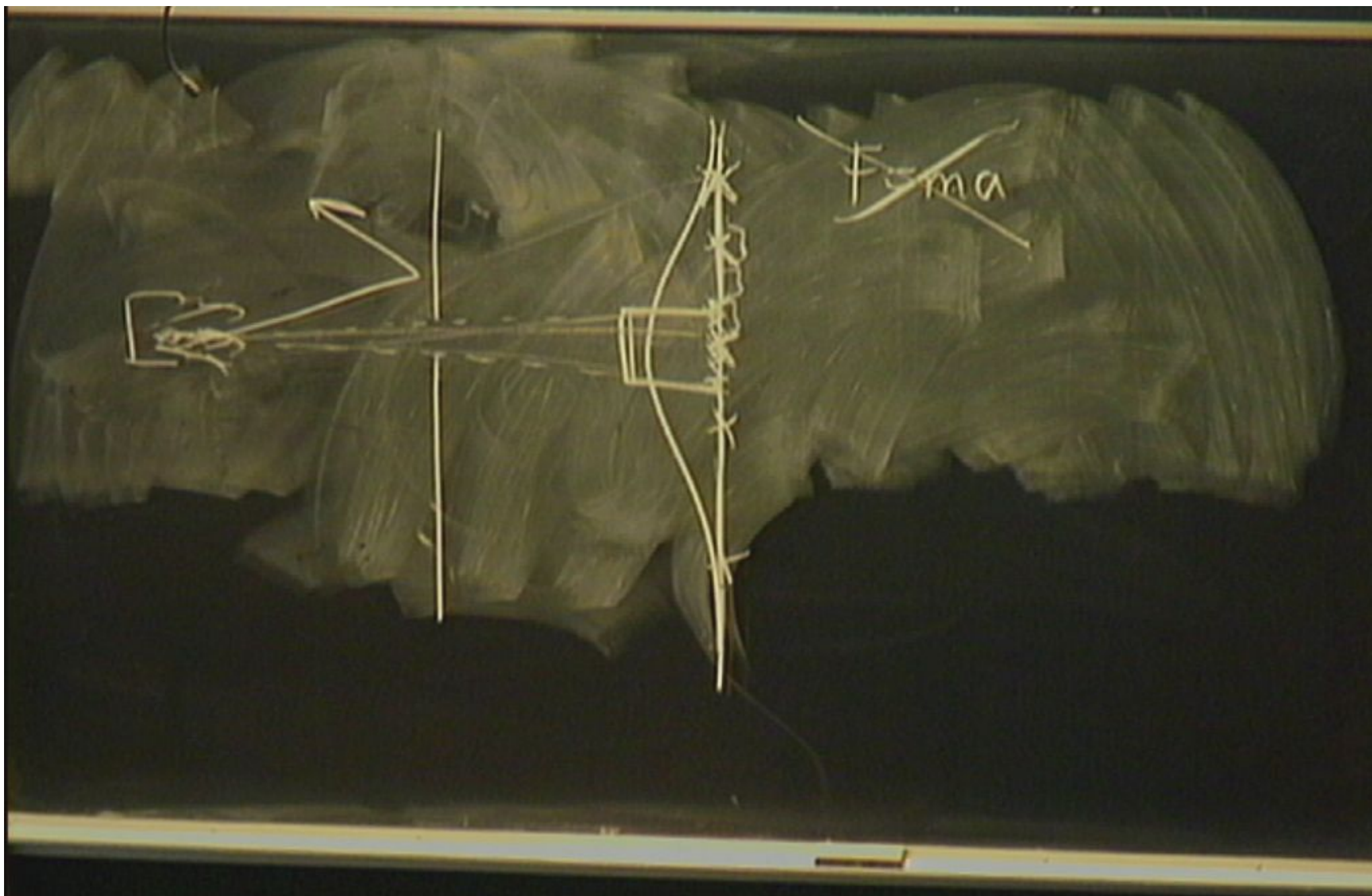


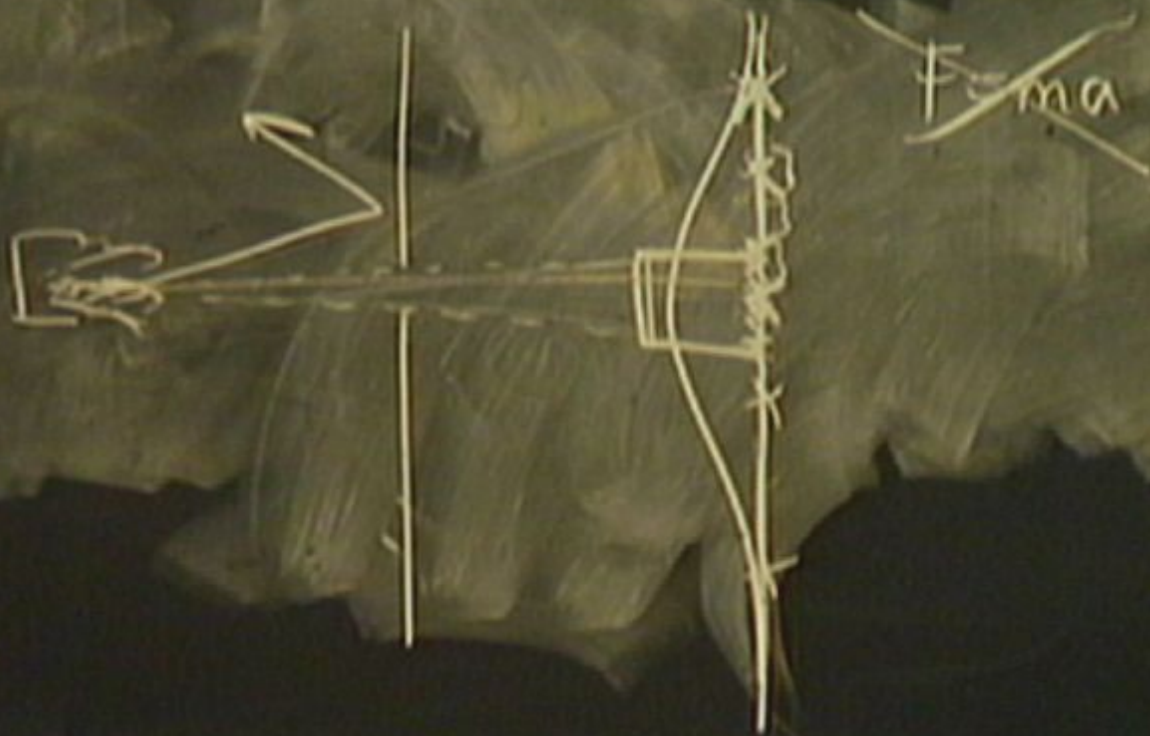


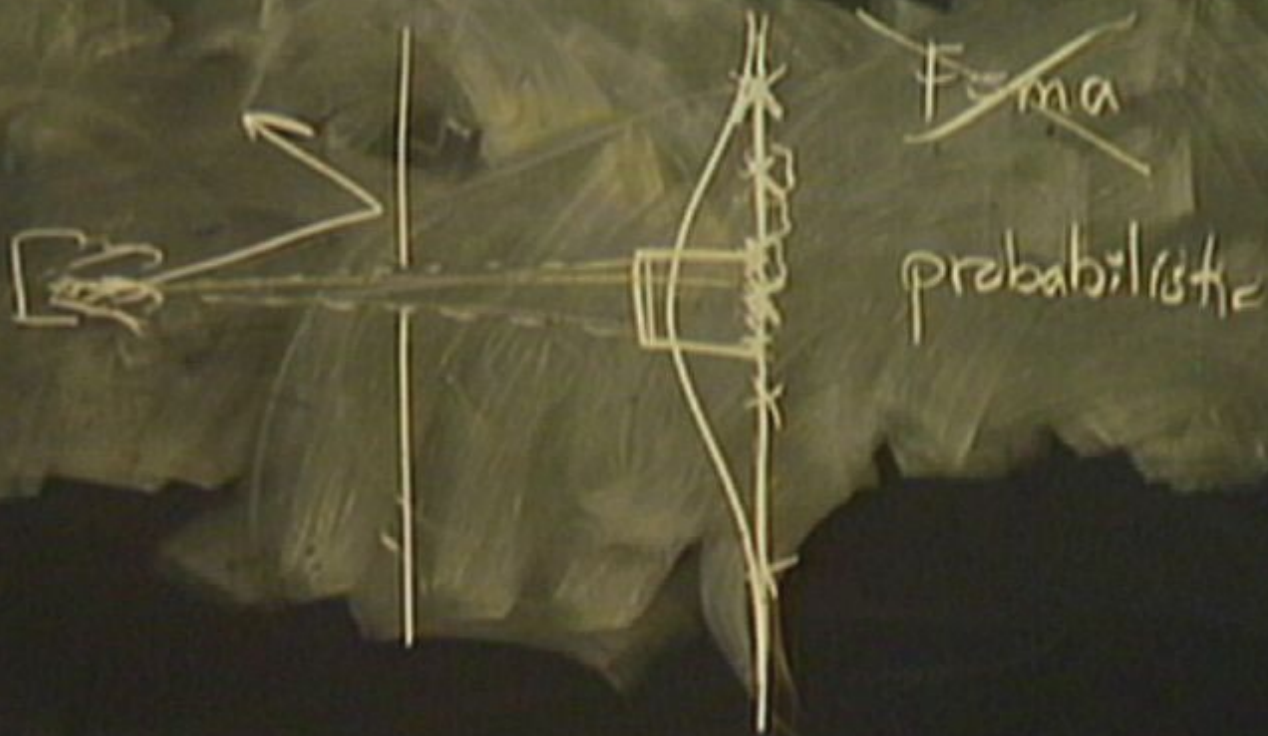


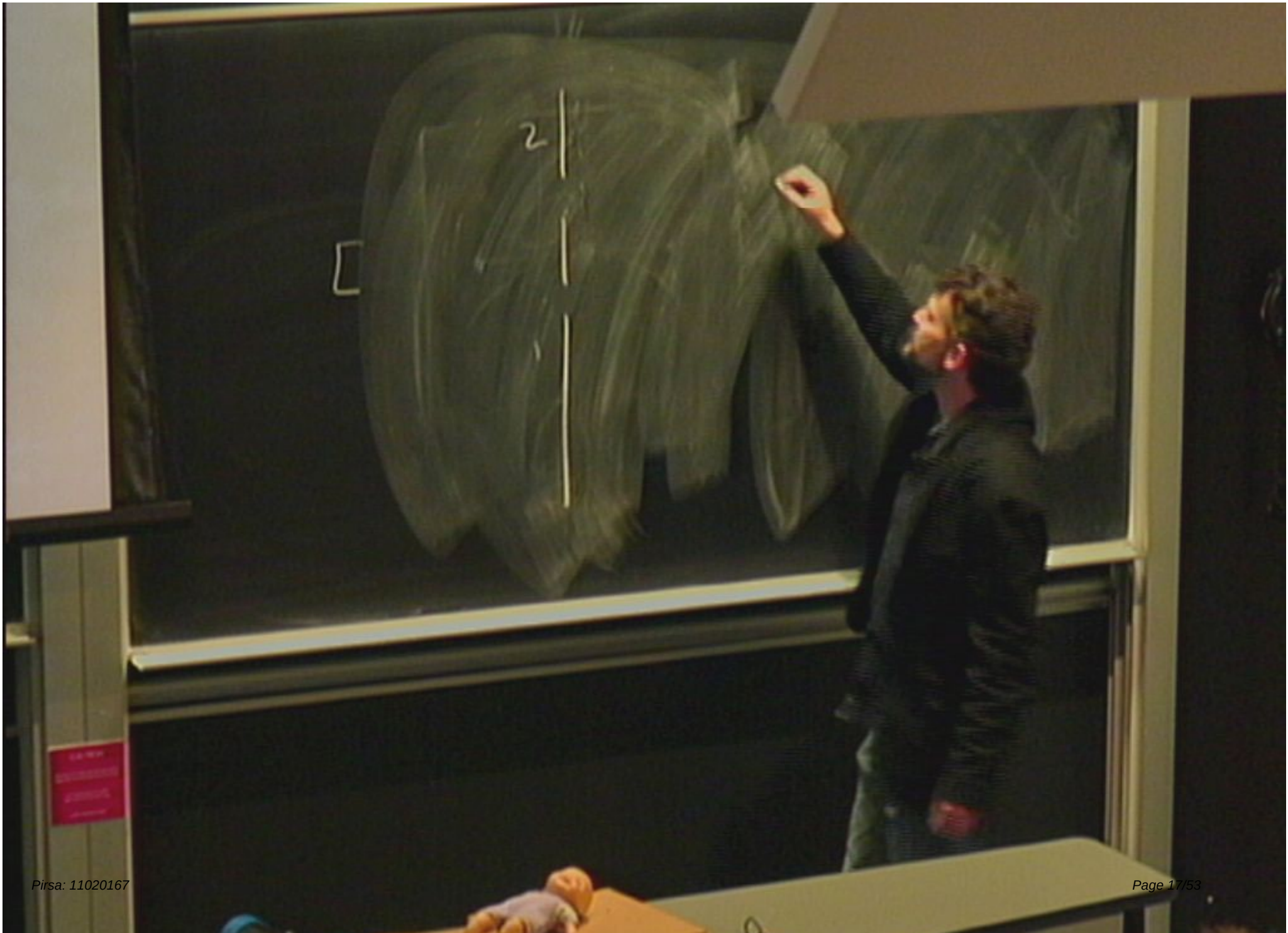


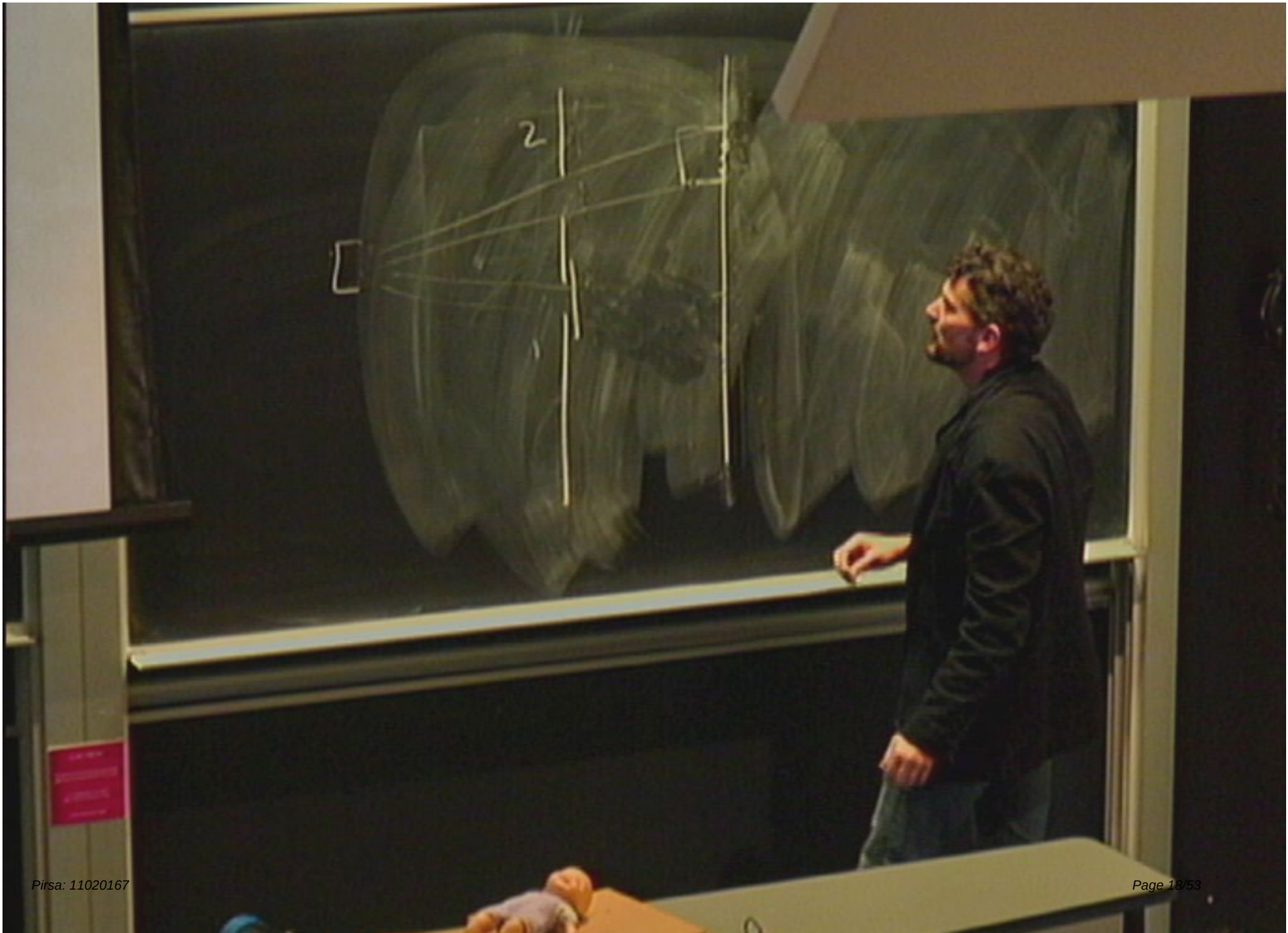


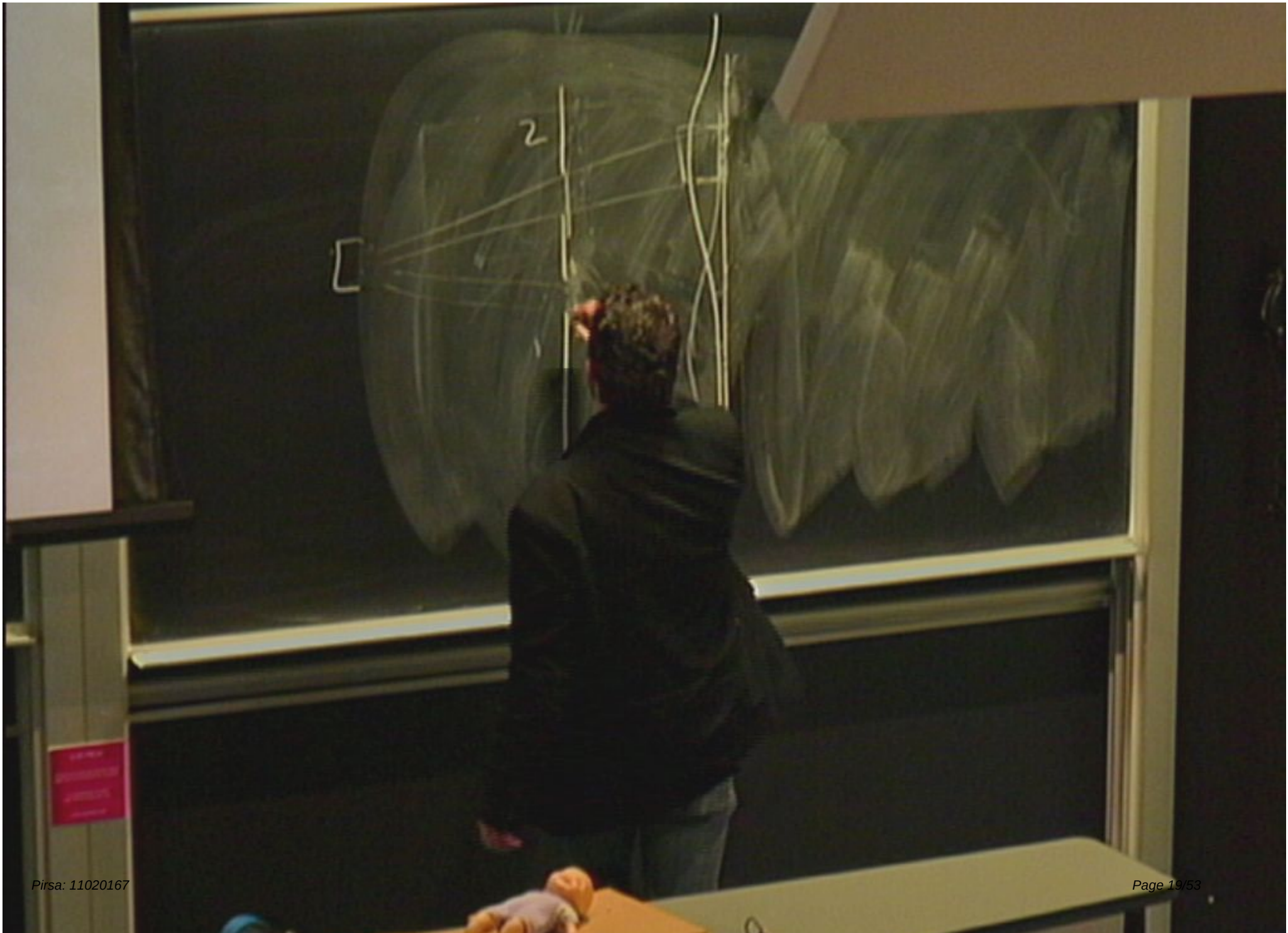


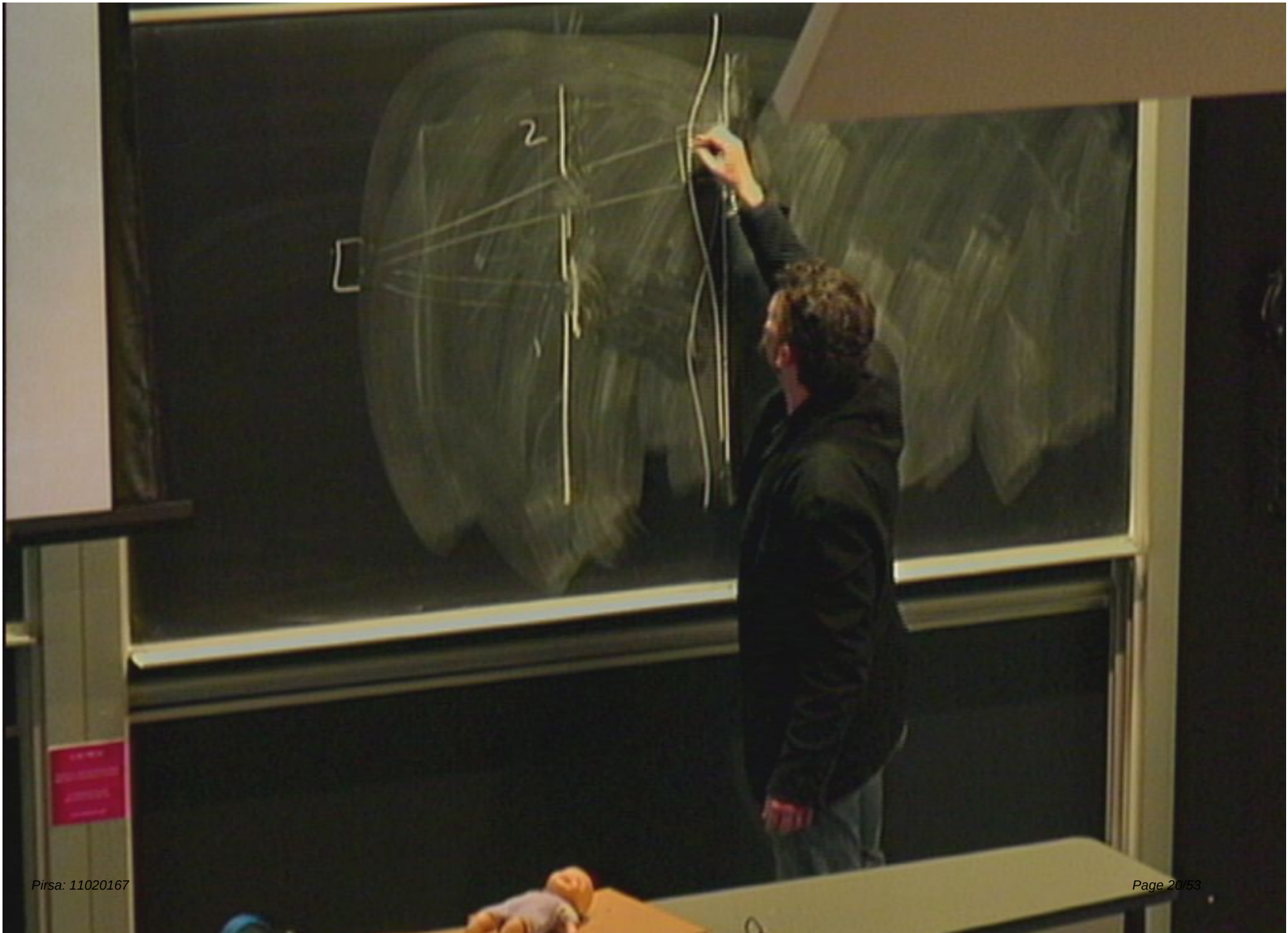


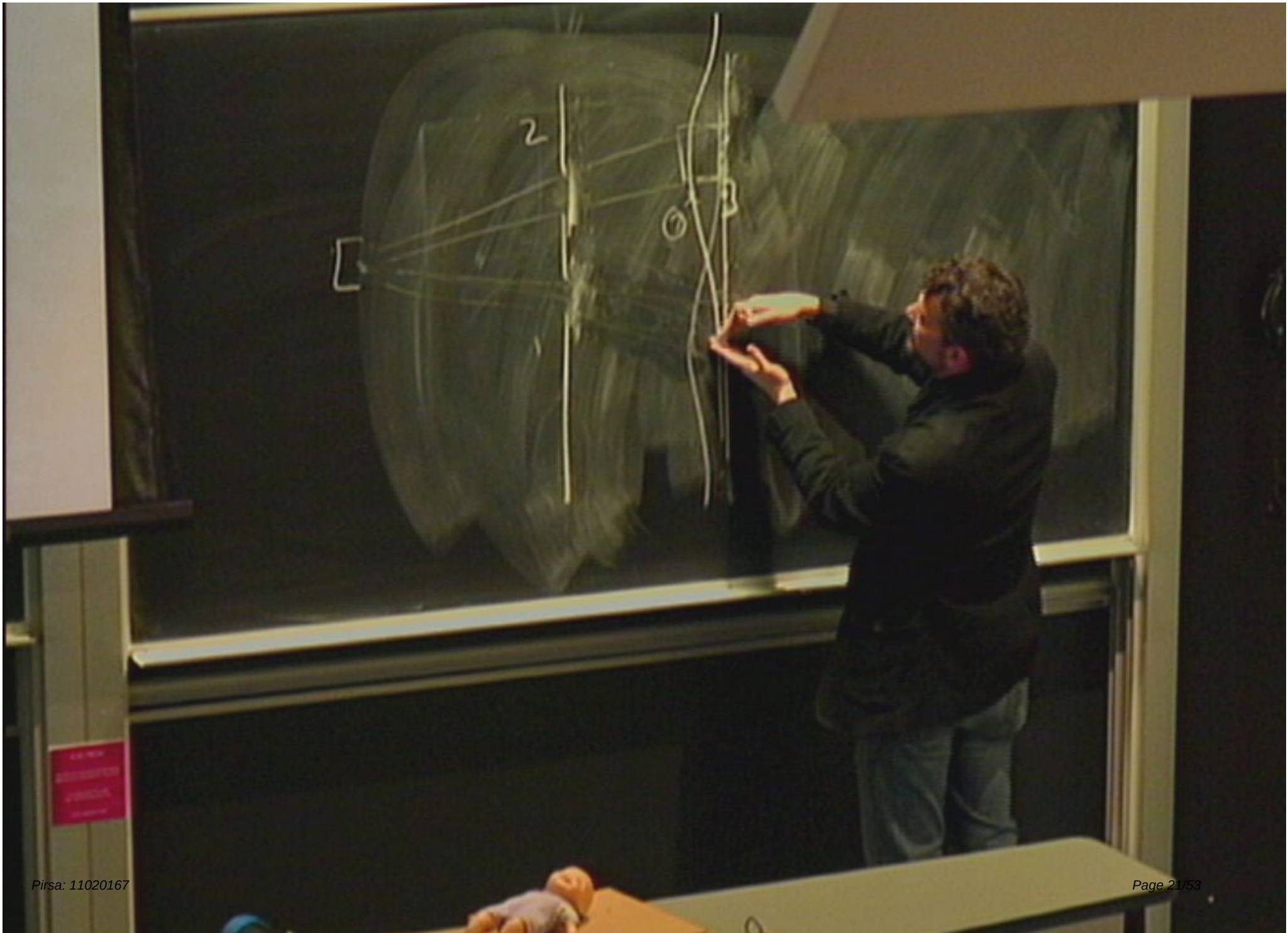


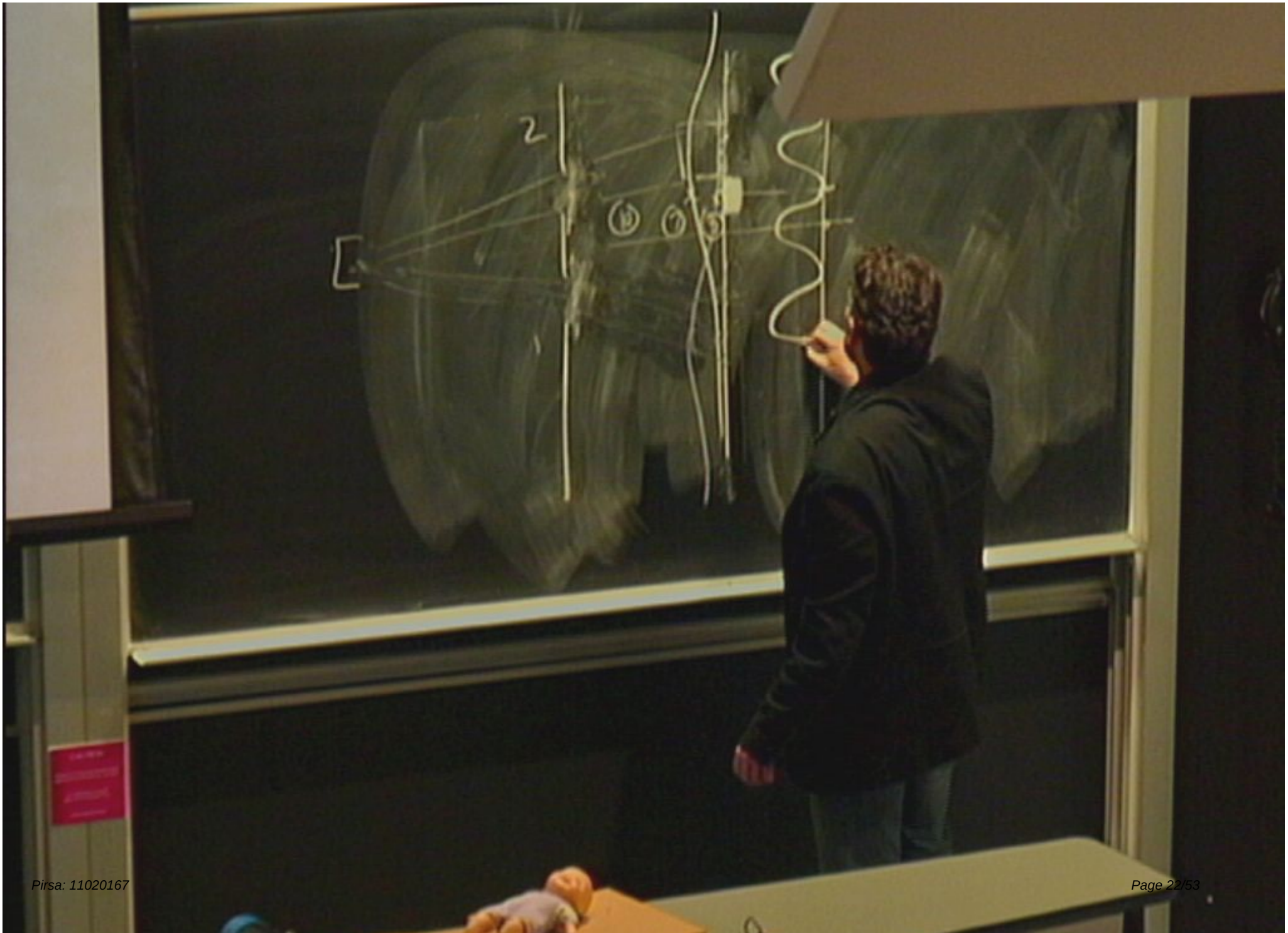


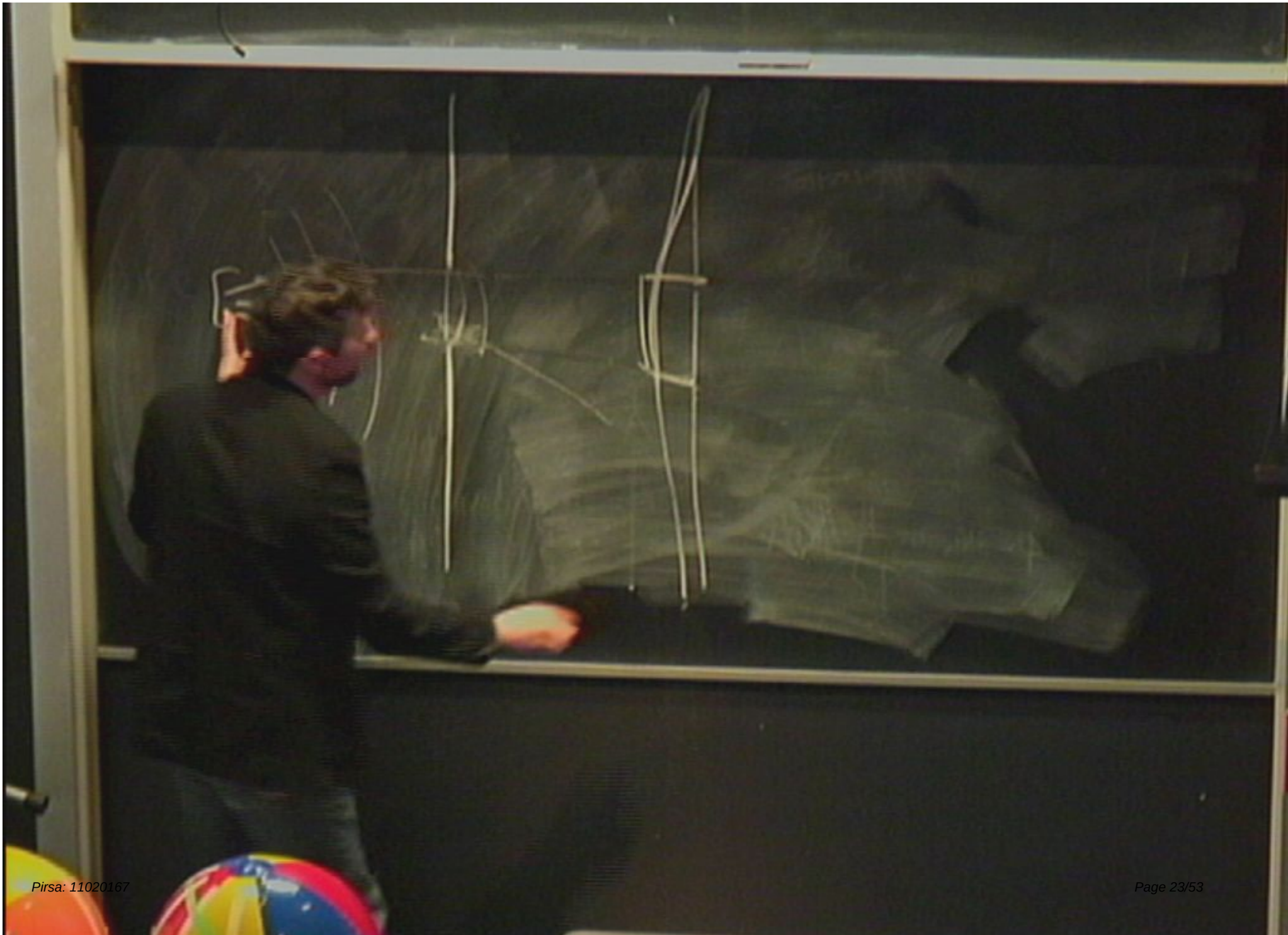


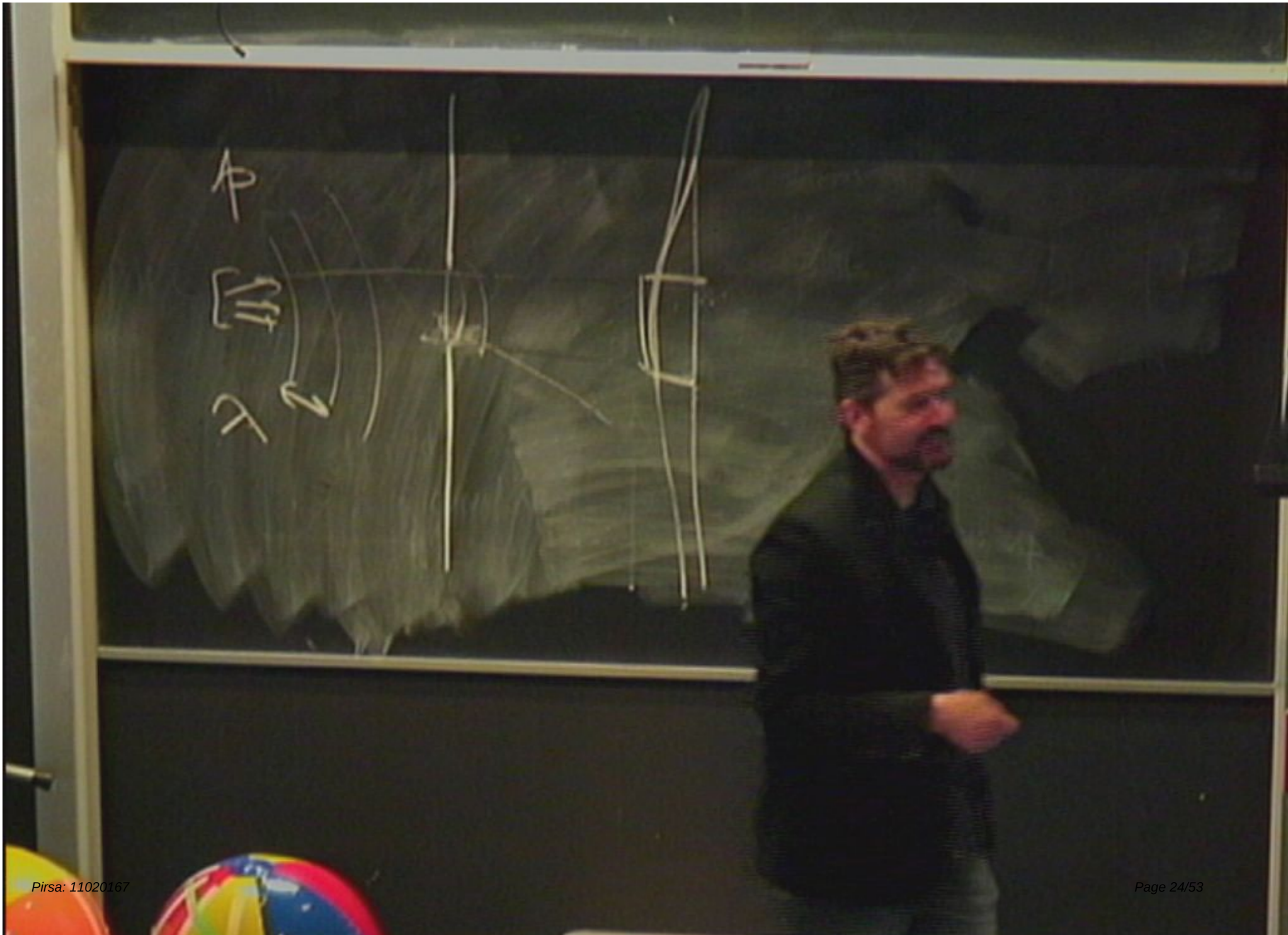












p

λ

λ

$$p\lambda = h$$

de Broglie

p

$\frac{h}{\lambda}$

λ

particule

onde

$$p\lambda = h$$

de Broglie

p

λ

λ

particule

onde

quantum
const.

$$p\lambda = h$$

de Broglie

p

λ

λ

particle

wave

quantum
const.

$$p\lambda = h$$

de Broglie

#1

particle nature of light

#1

particle nature of light



#1

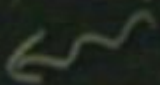
particle nature of light



#1

particle nature of light

$$E = hf$$



$\ominus$

$$E_k =$$

#1

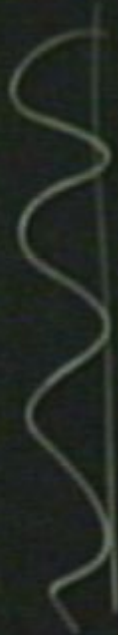
particle nature of light

$$E = hf$$

$$E_k = E - \phi$$

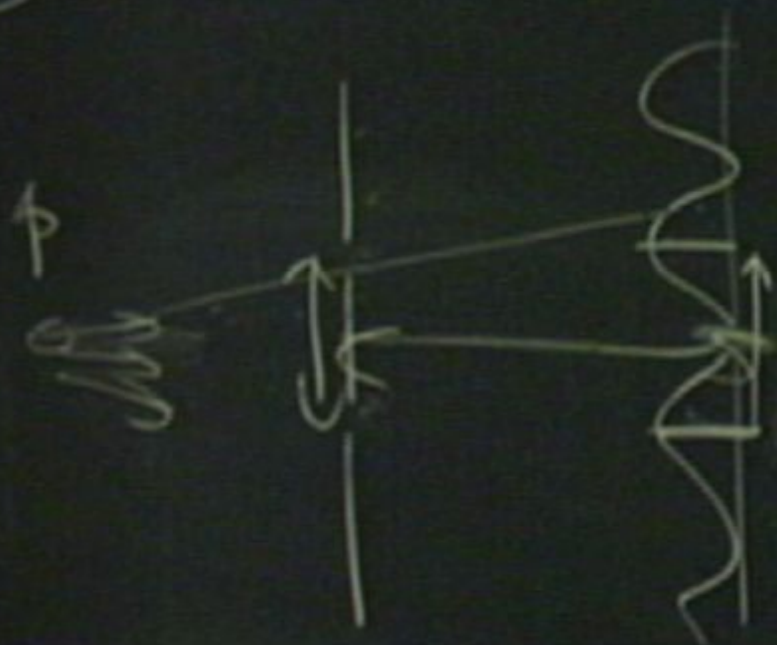
#2

wave nature of matter



#2

wave nature of matter



③ Planck's Constant

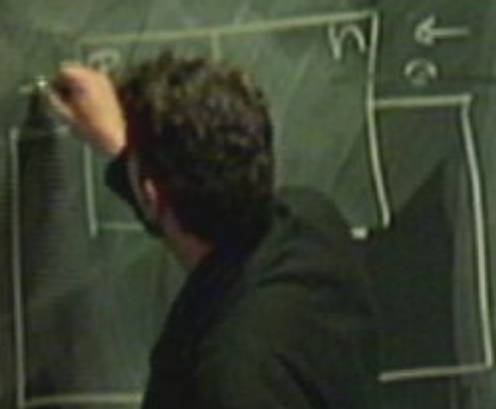


NO
SMOKING
PLEASE

③ Planck's Constant



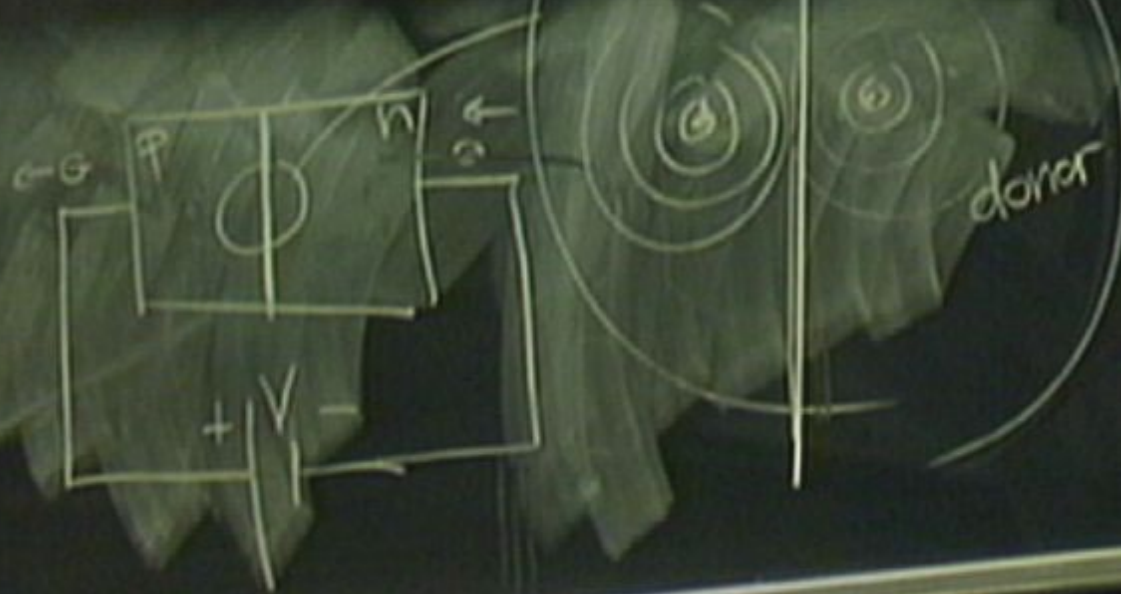
③ Planck's Constant



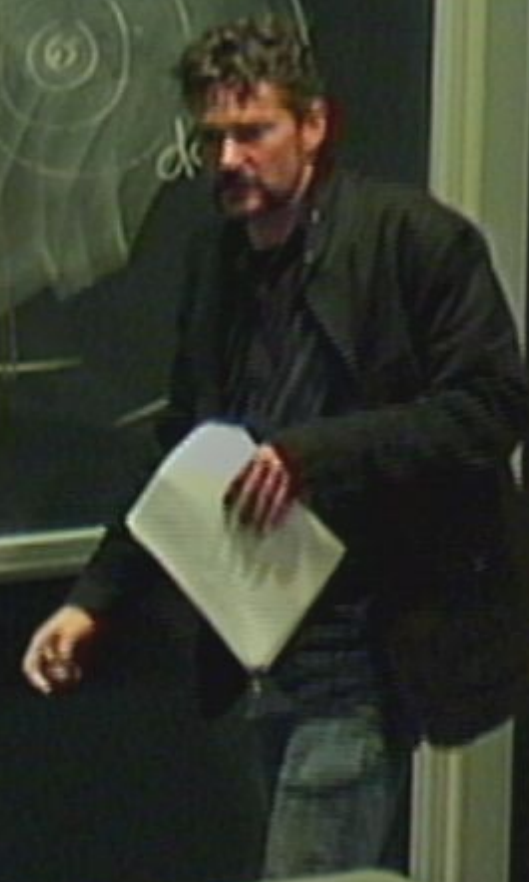
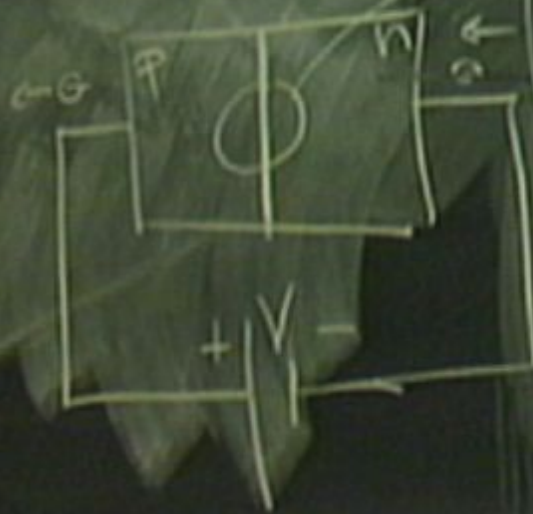
③ Planck's Constant

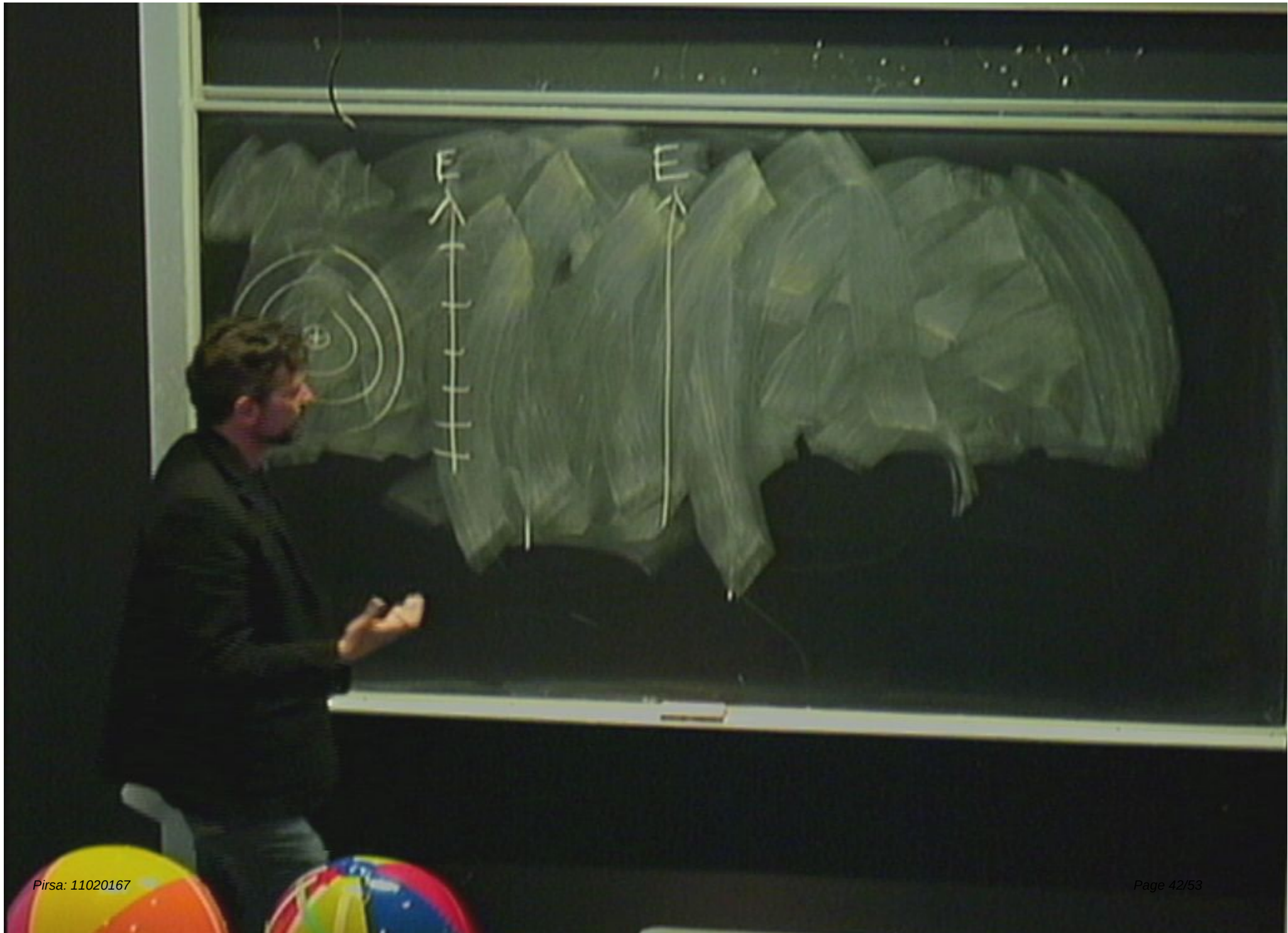


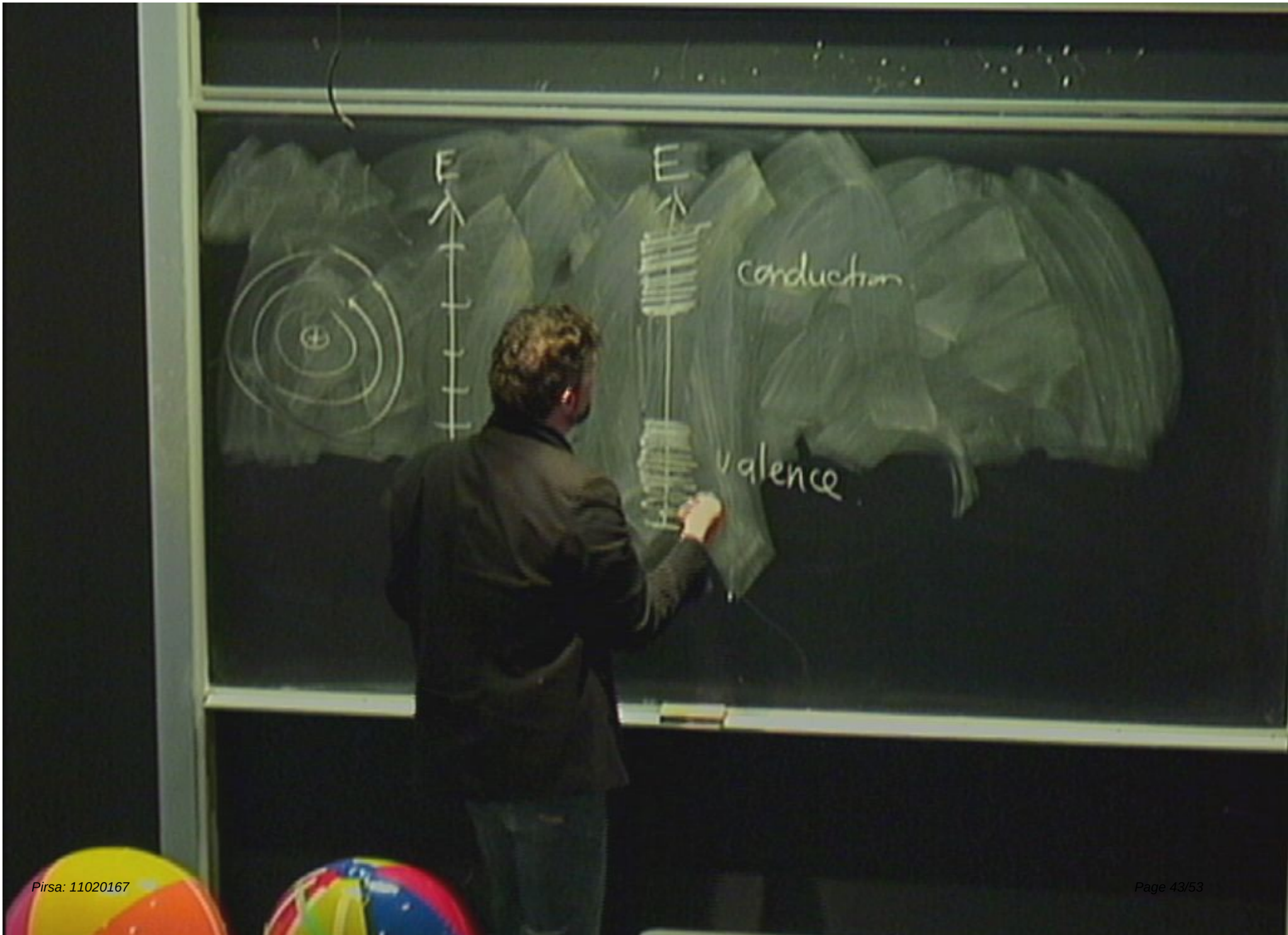
③ Planck's Constant



③ Planck's Constant









conduction

$$E = hf = E_{BG}$$

valence

E
 $p = \frac{h}{\lambda}$
 conduction
 $f = \frac{E}{BG}$
 ω

