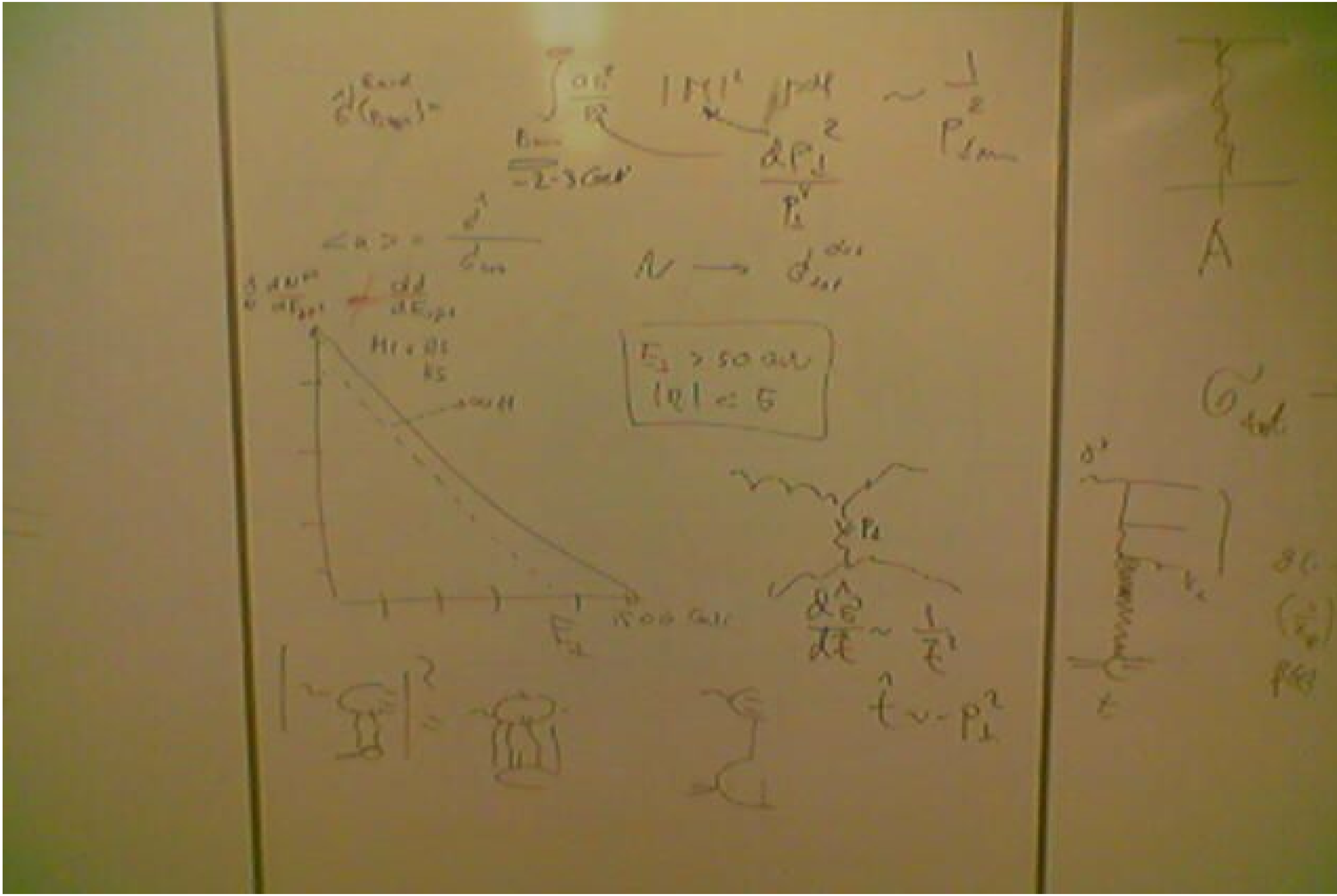
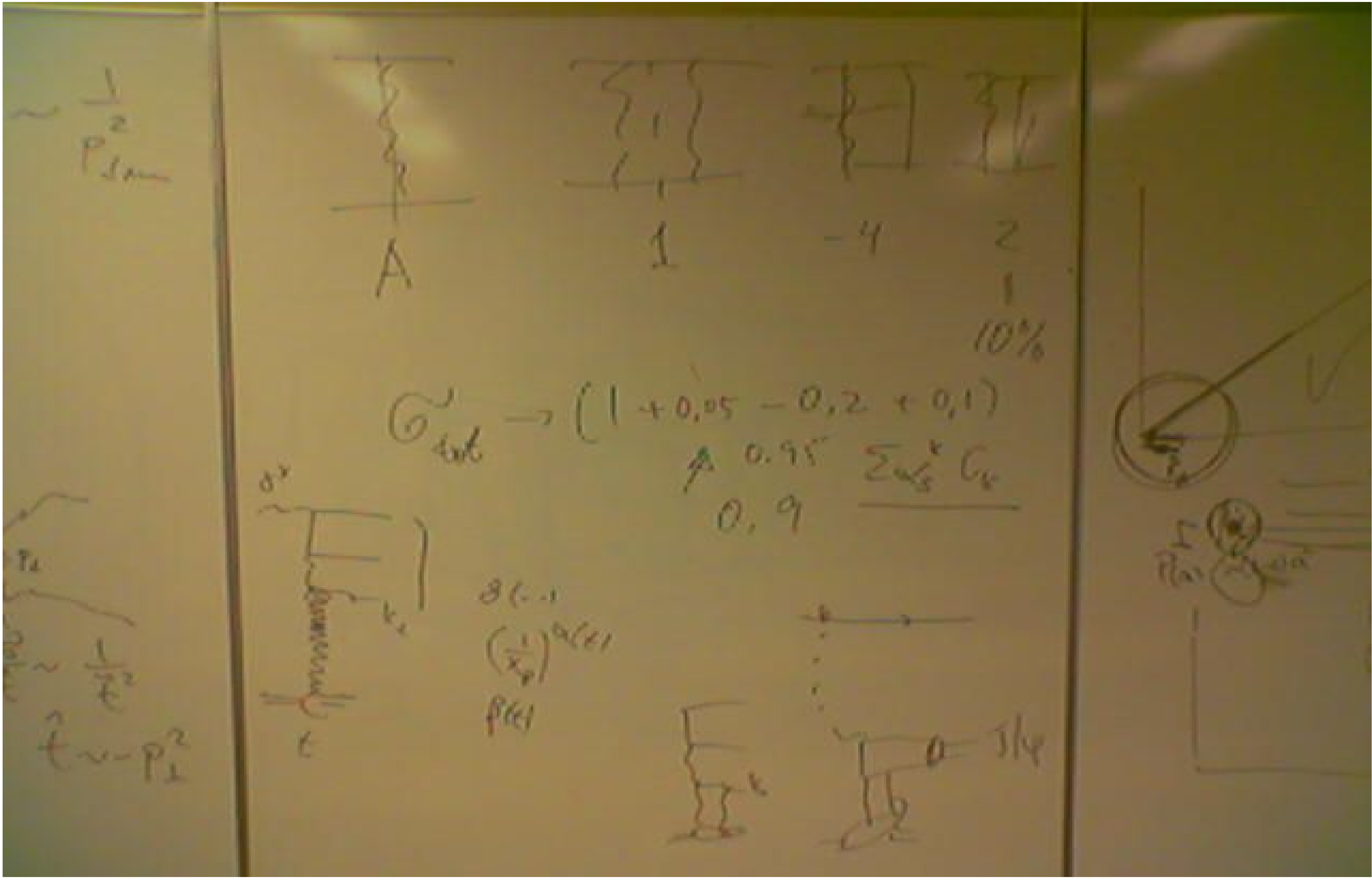
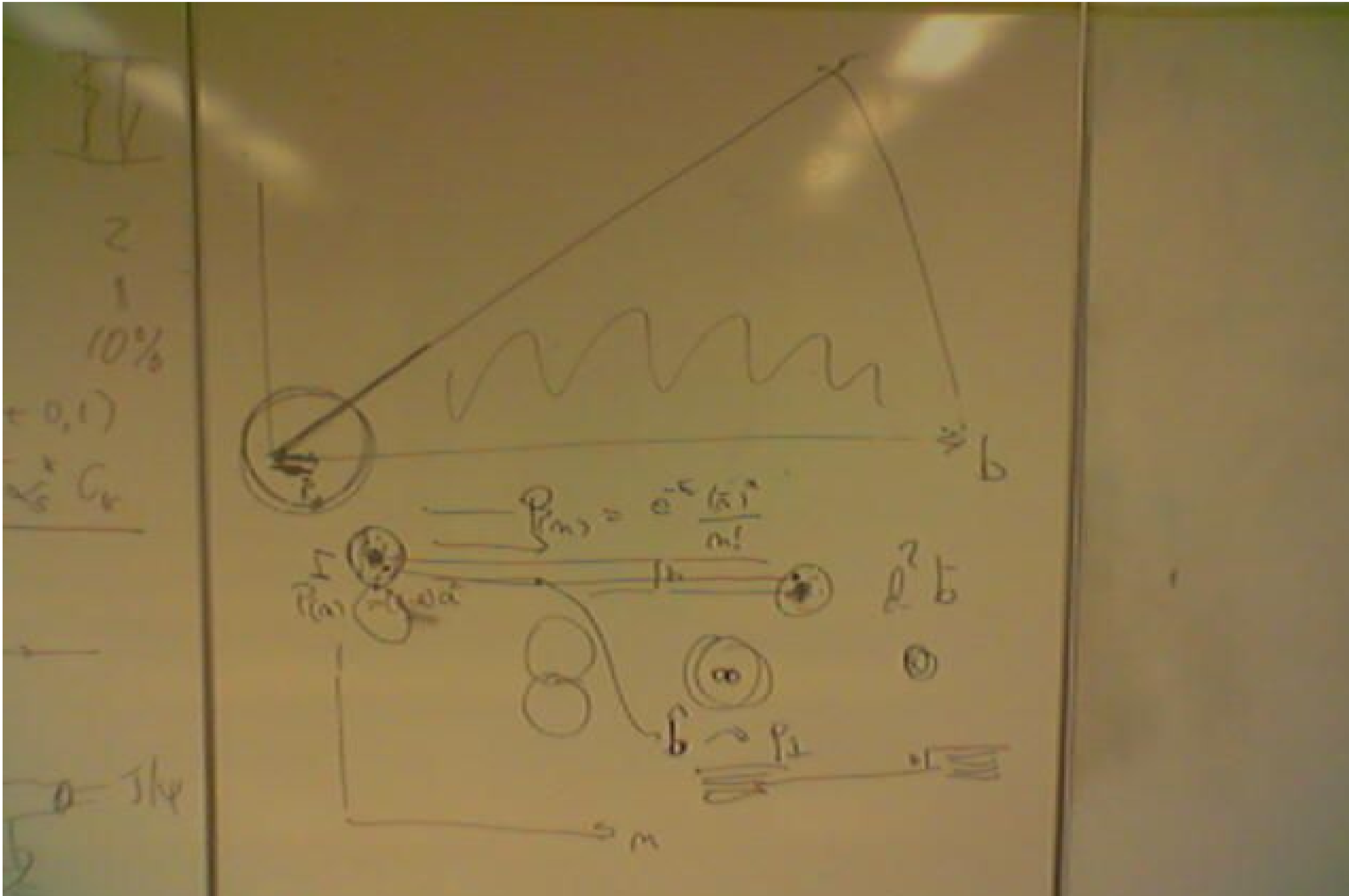
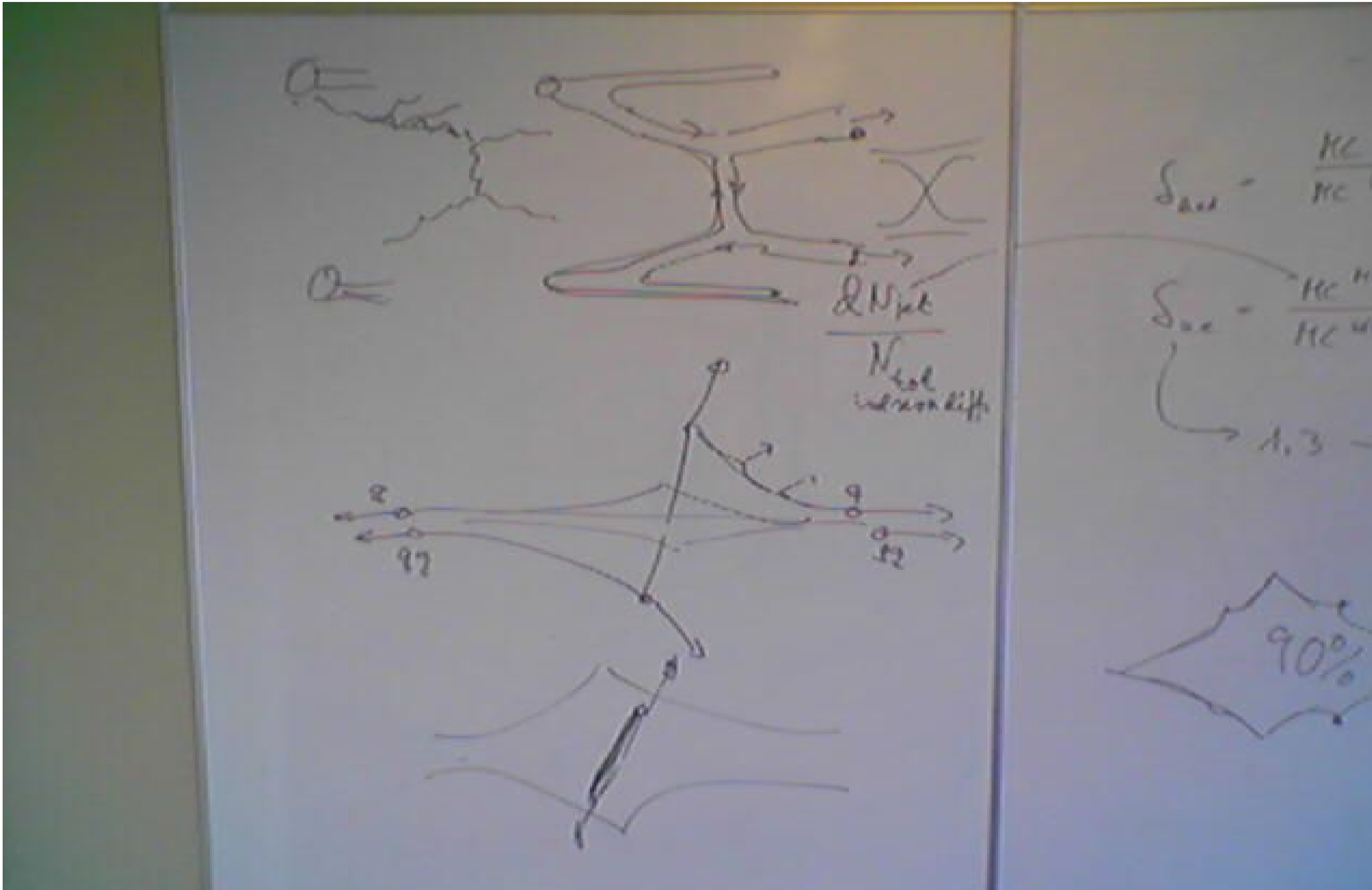
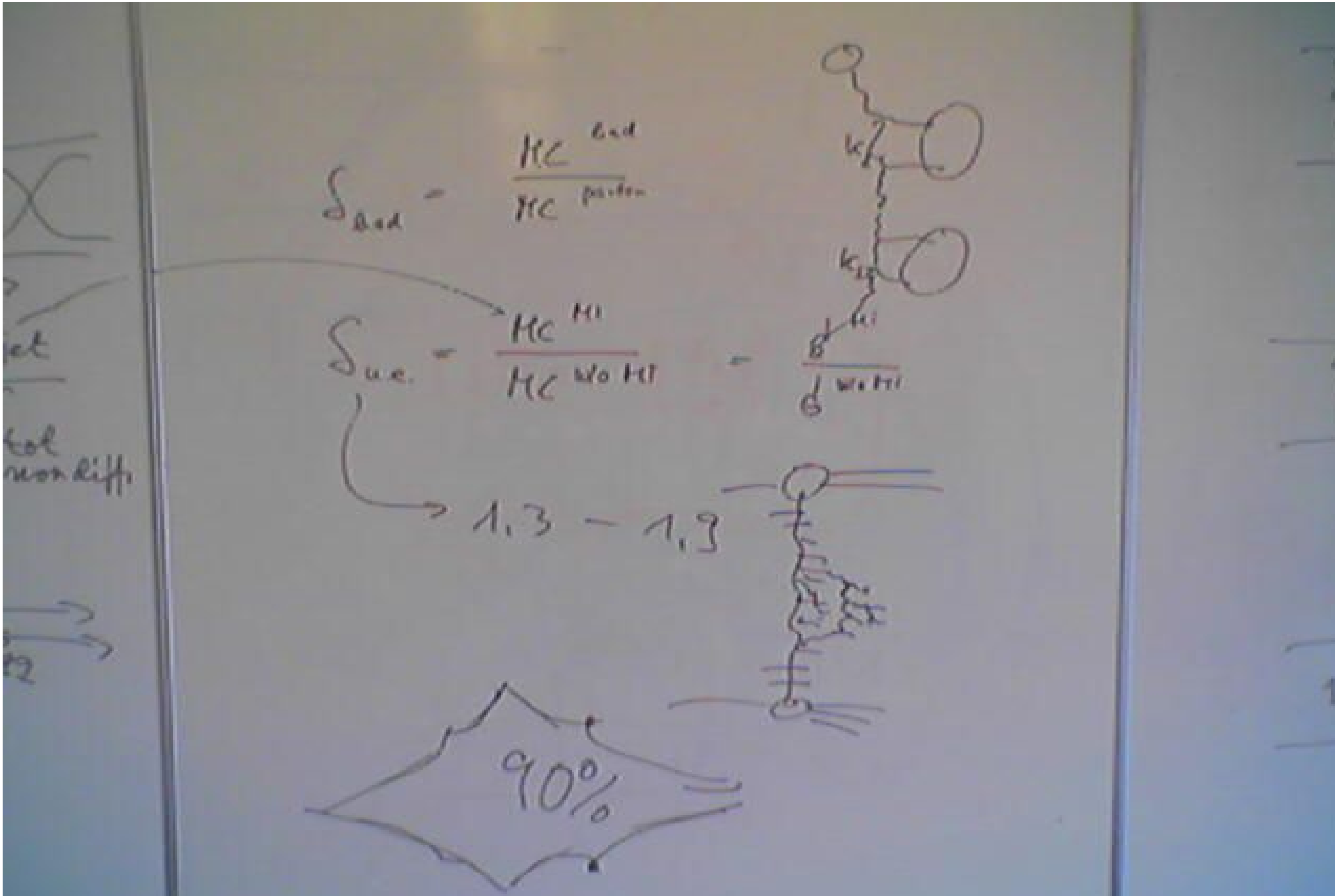
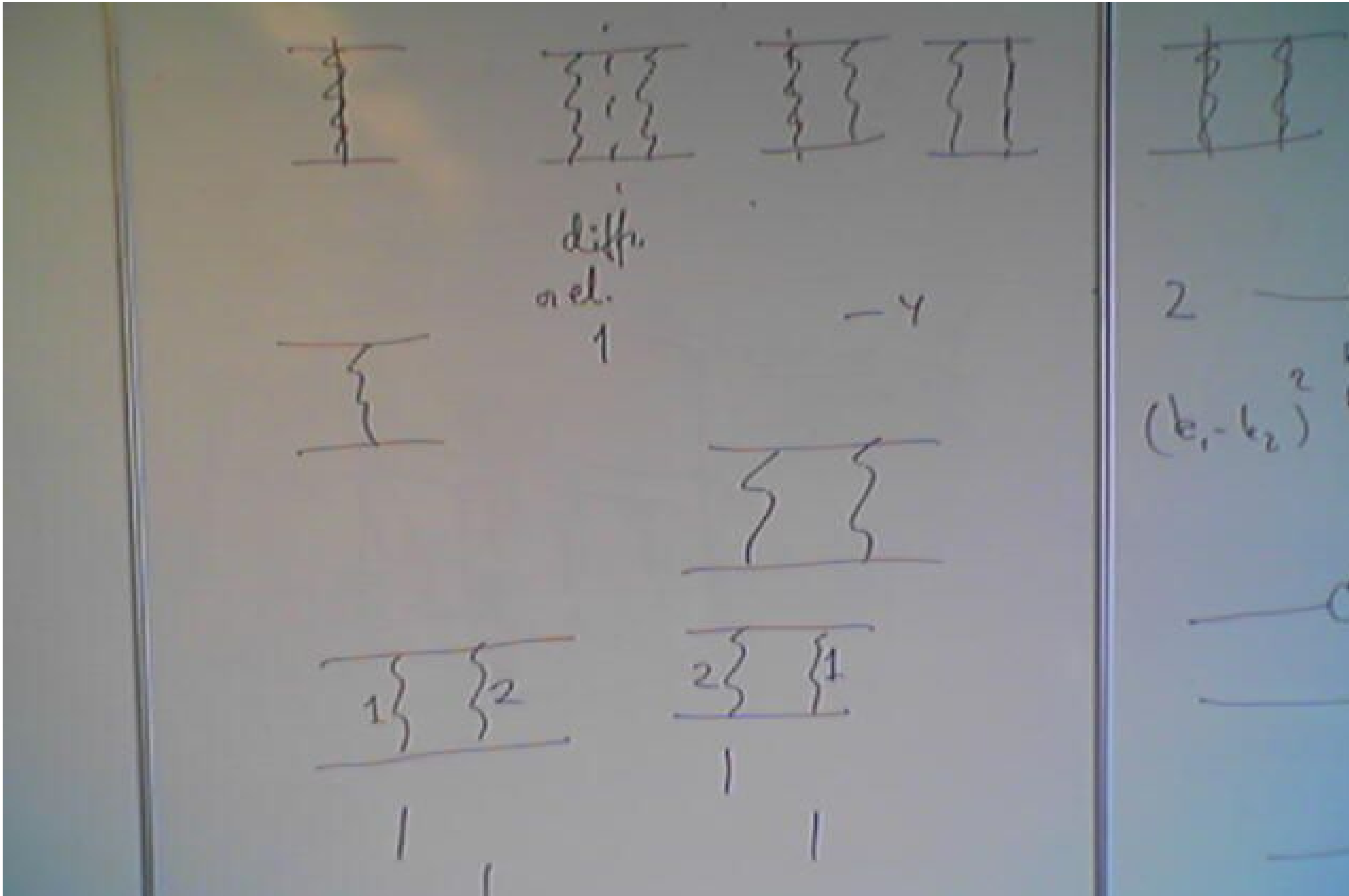


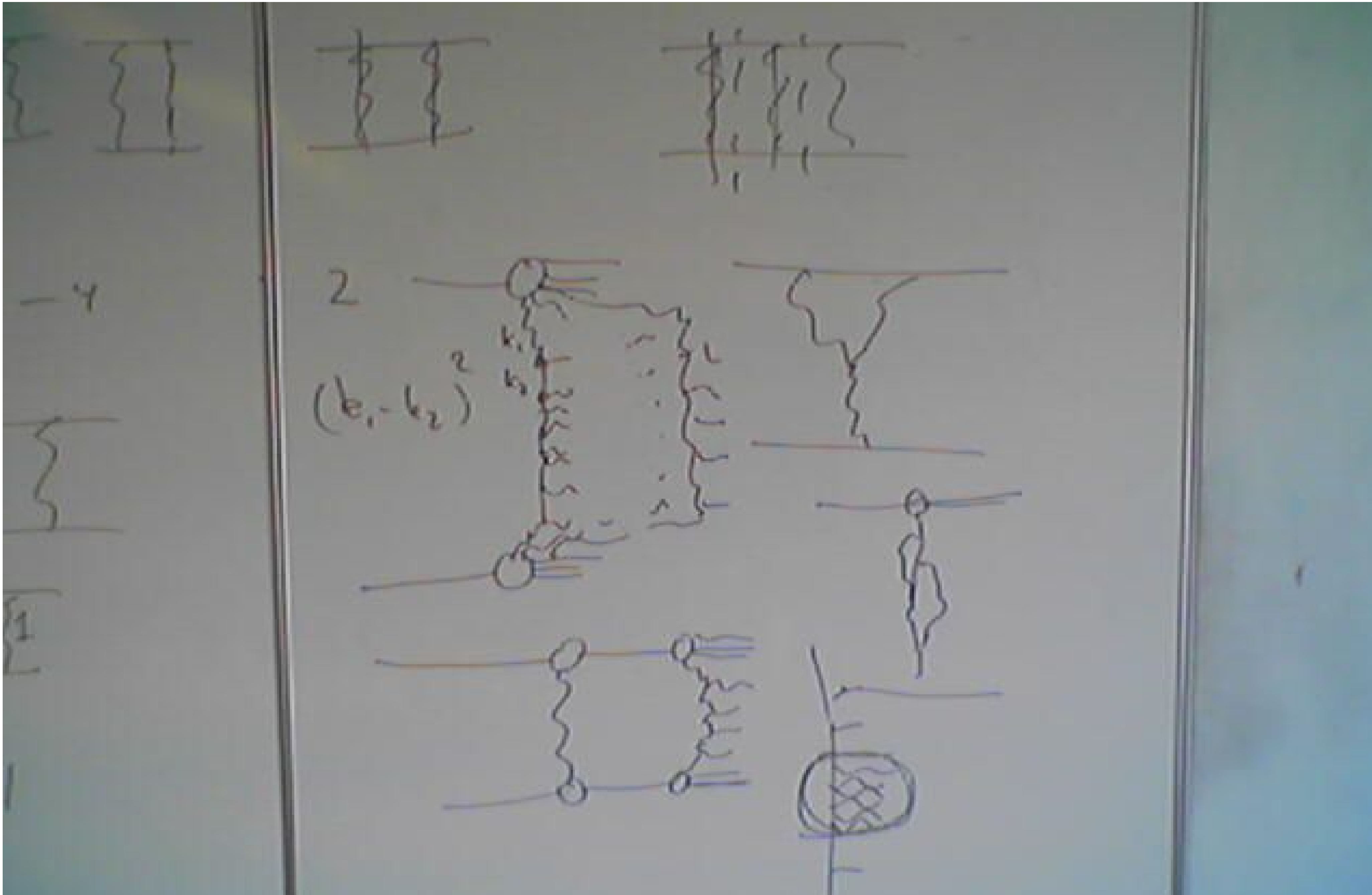

A
1
-4
2
10%
(1 + 0,05 - 0,2 + 0,1)
0.95
0, 9


10%
b
m

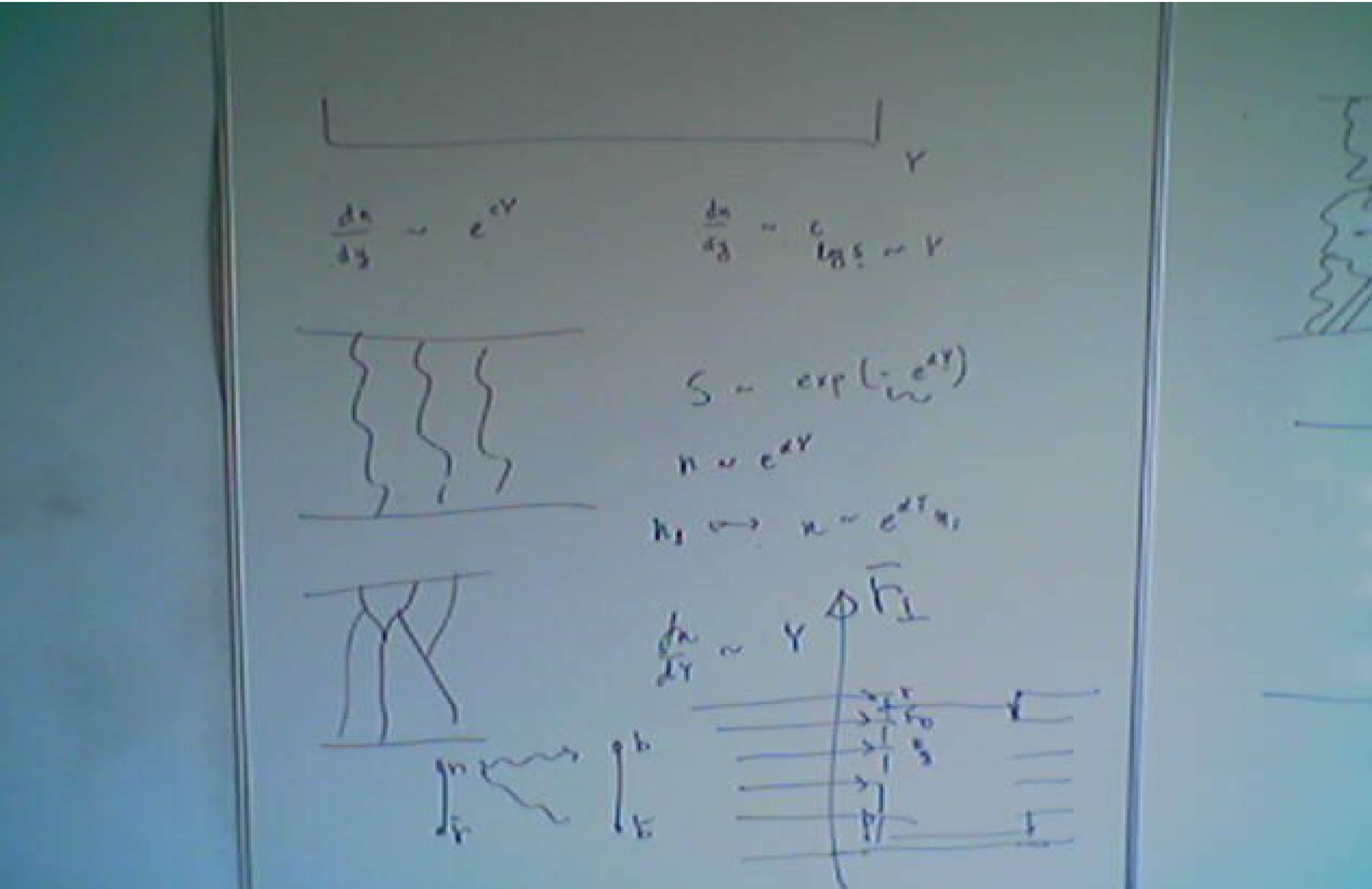

1,3 –
90%

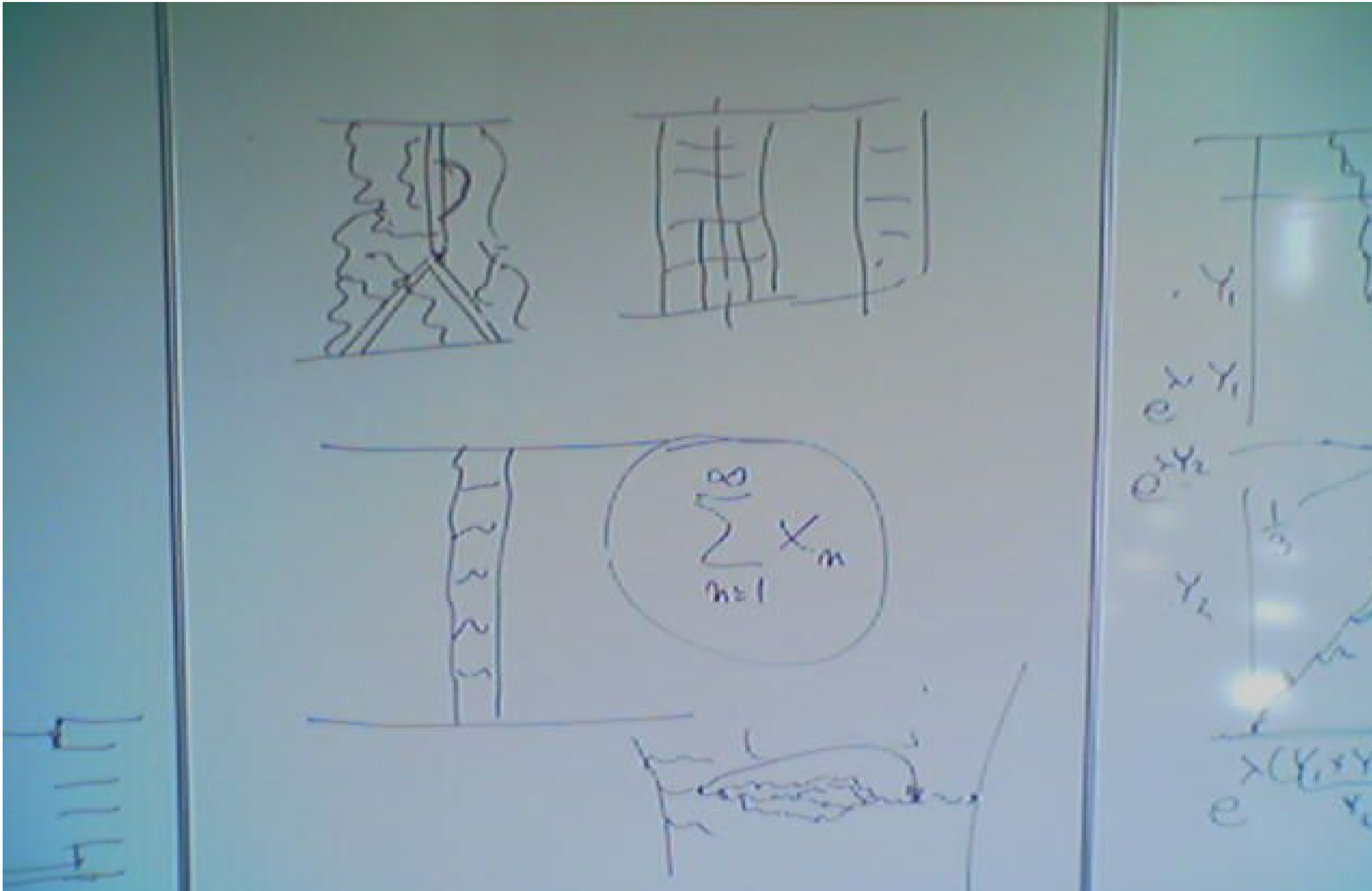

HC
HC w/o MI
1,3 – 1,9
90%

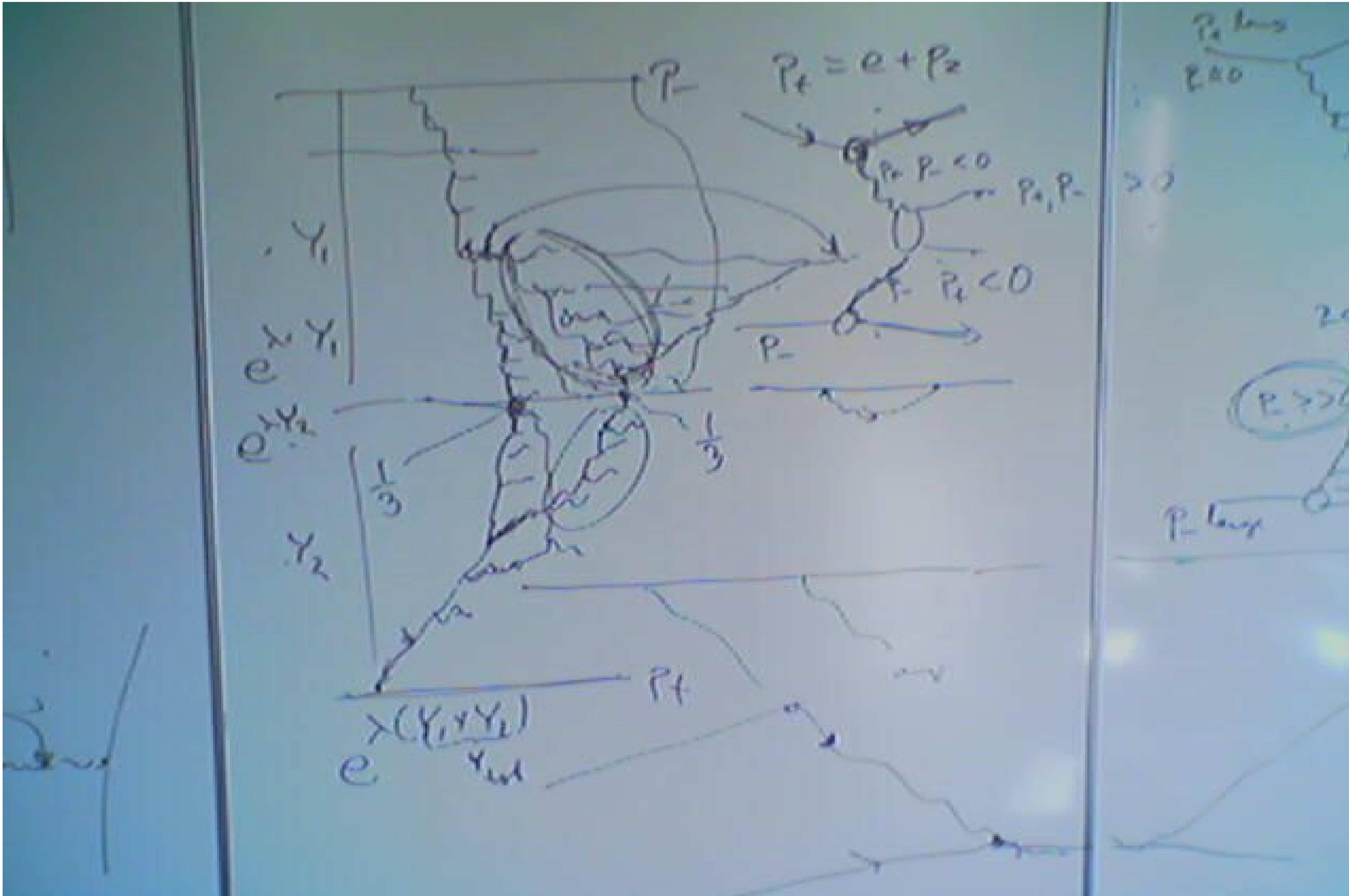

diff.
inel.
1
− Y
2
$(k_1 - k_2)^2$
1
2
2
1
1
1
1



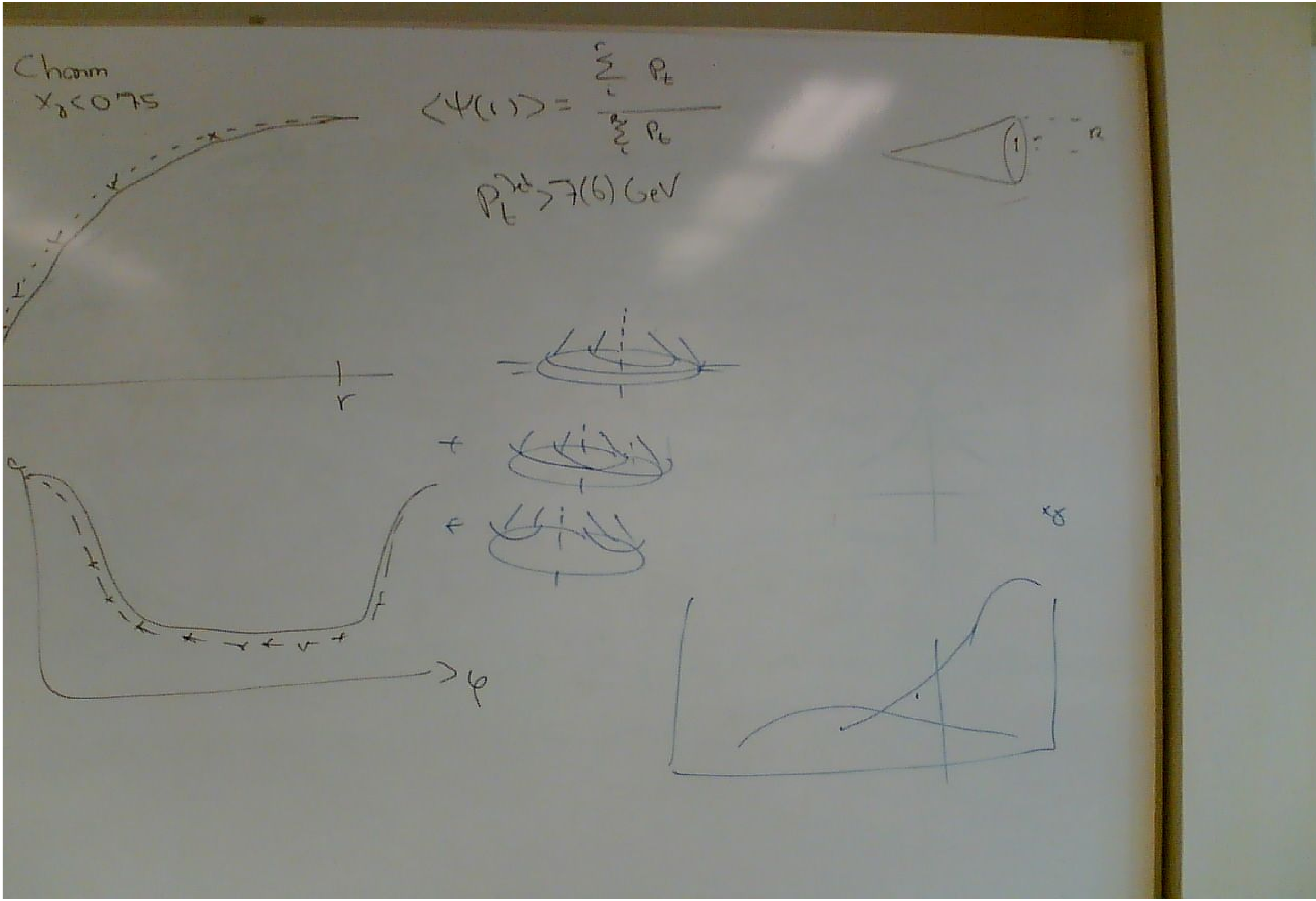
2
$(k_1-k_2)^2$
k_1
k_2

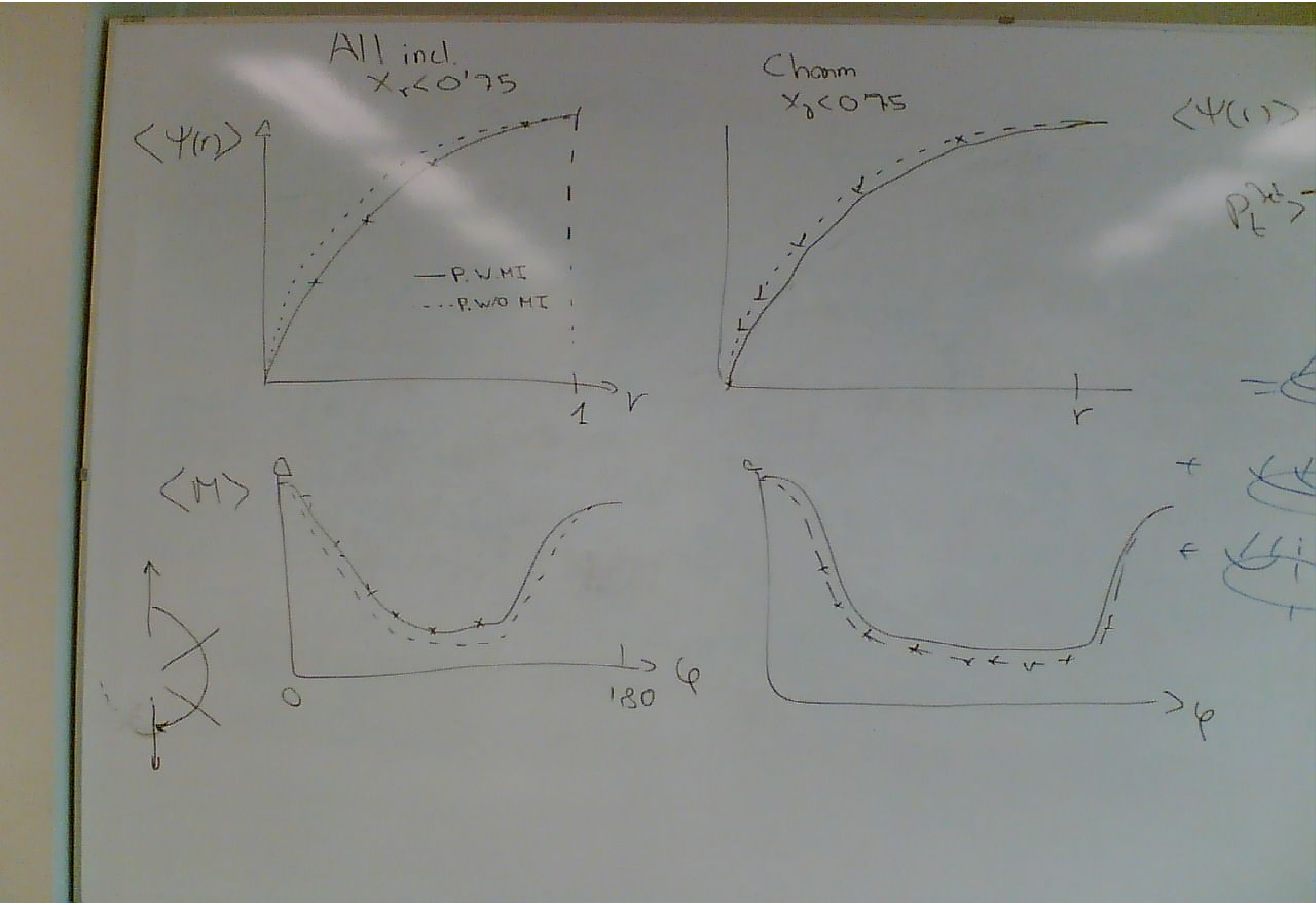

Y
dn/dy ~ e^{αY}
dn/dy ~ c
log s ~ Y
S ~ exp(- e^{αY})
n ~ e^{αY}
n_1 ⟶ n ~ e^{αY} n_1
dn/dY ~ Y
r_⊥
r_0

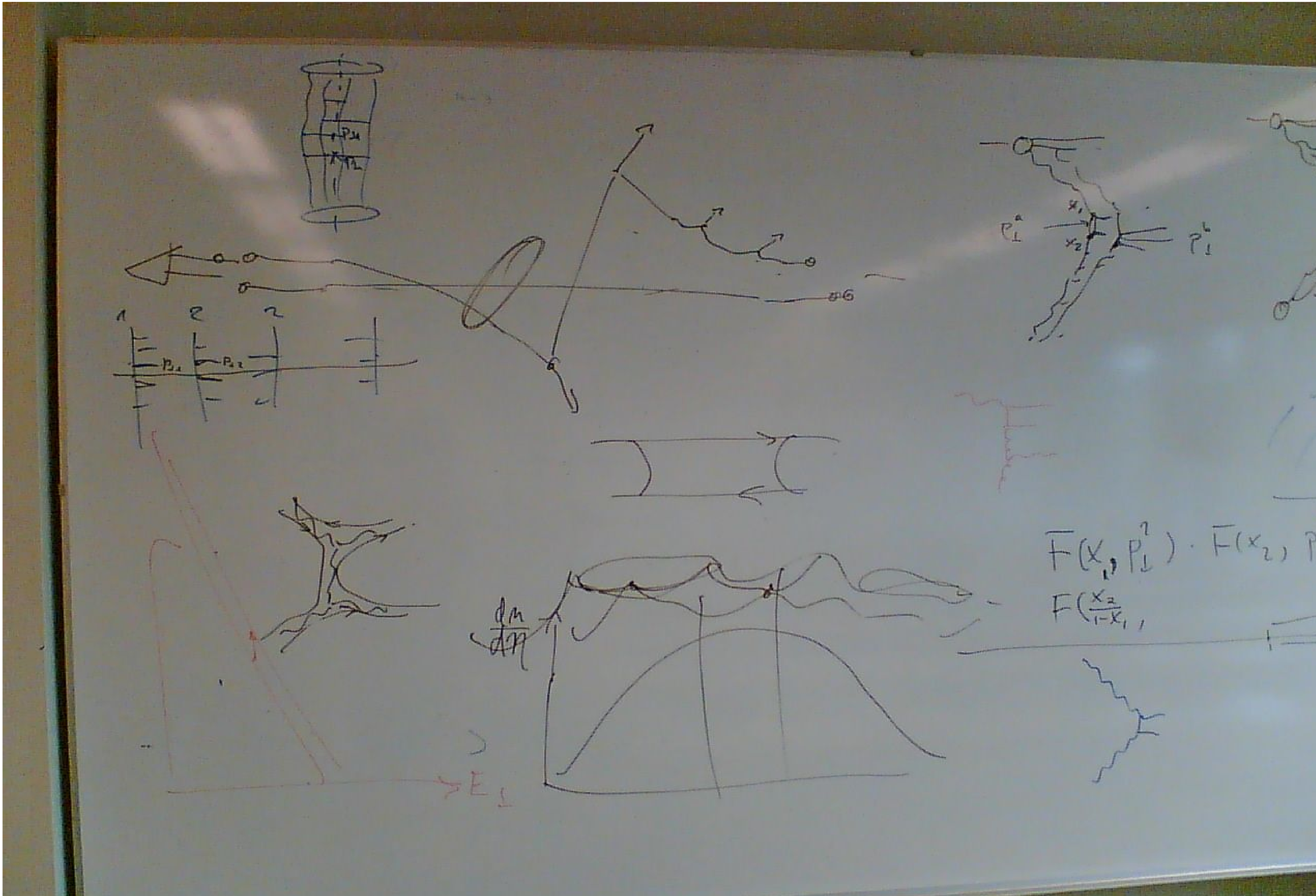

$\sum_{n=1}^{\infty} x_n$
Y_1
$e^{\lambda Y_1}$
$e^{\lambda Y_2}$
Y_2

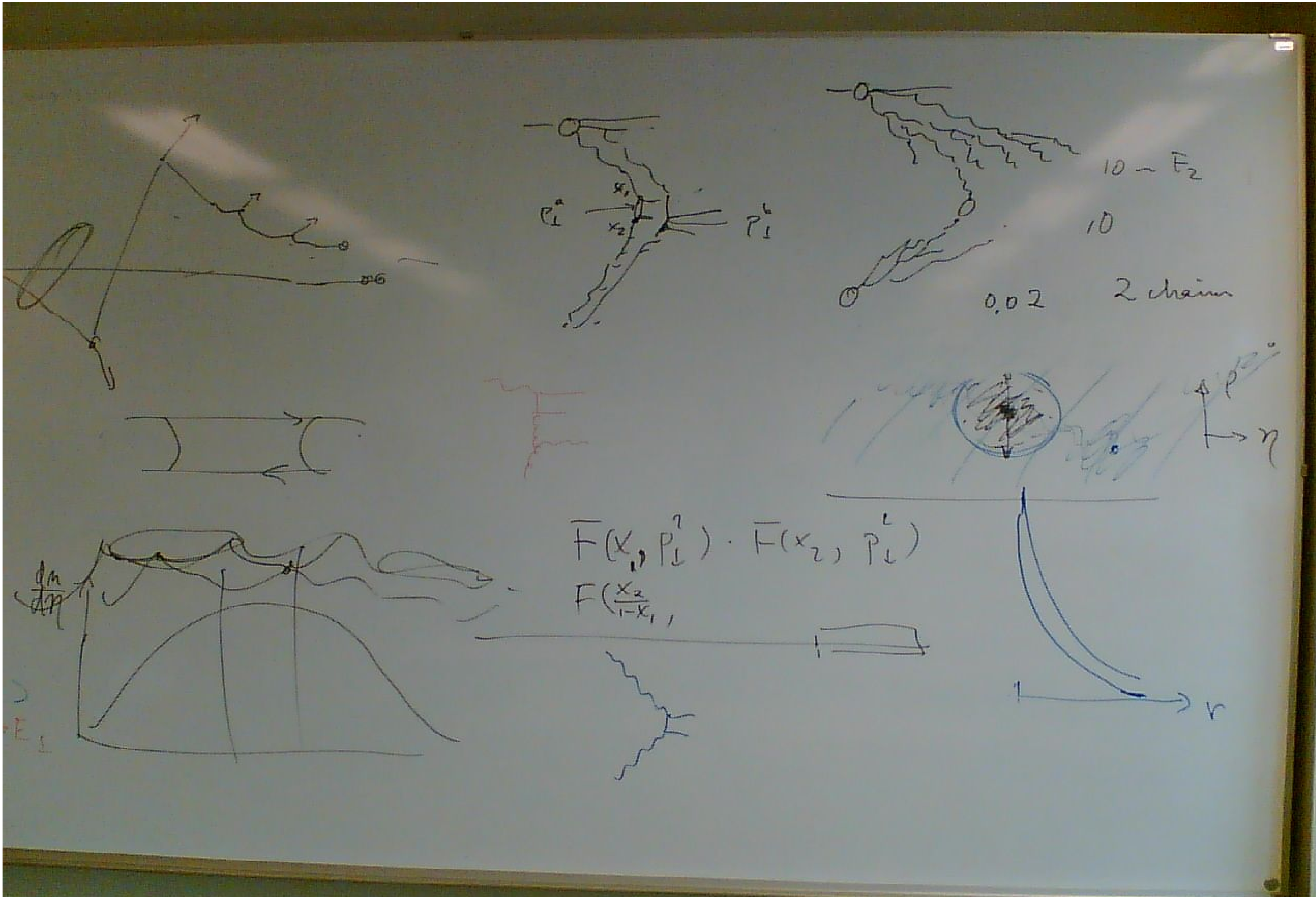

P_-
P_+ = e + P_z
P_+ P_- < 0
P_+, P_- > 0
P_+ < 0
P_-
Y_1
e^{λ Y_1}
e^{λ Y_2}
1/3
1/3
Y_2
P_+
e^{λ(Y_1+Y_2)}
P_- large

P_+ large
$z \approx 0$
$P_+ P_- > 0$
$P_+, P_- > 0$
$P_- < 0$
$P_- \; P_+ < 0$
$z \approx 0$
$P_- >> 0$
P_- large


Charm
$x_\gamma < 0.75$
$\langle \psi(r) \rangle = \frac{\sum^{r} p_t}{\sum^{R} p_t}$
$p_t^{jet} > 7(6)$ GeV
R
r
φ
x_γ


All incl.
x_γ<0'75
Charm
x_γ<0'75
⟨ψ(r)⟩
— P. W. MI
- - - P. w/o MI
1
r
⟨M⟩
0
180
φ


$F(x_1, p_\perp^1) \cdot F(x_2, p_\perp$
$F(\frac{x_2}{1-x_1},$
$\frac{dn}{d\eta}$
$E_\perp$



$p_\perp^a$
x_1
x_2
$p_\perp^b$
$10 \sim E_2$
10
0.02
2 chain
$\frac{dn}{d\eta}$
$F(x_1, p_\perp^a) \cdot F(x_2, p_\perp^b)$
$F(\frac{x_2}{1-x_1},$
η
r

1.) correlation / interference

3.

- is $p_\perp$ ordering enough to neglect interference?

2.) AGK inclusive jet x section

- parton level
- hadron level
- normalisation / total x section

1

$$\sigma_{\text{"tot"}} = \text{diffractive} + \text{interference} + \text{multiple exchange}$$

$$S_{u.e} = \frac{\sigma^{MI}}{\sigma^{w/o\ MI}}$$

$1.3 - 1.9$

$E_\perp > 6\ (7)$

3.) fool proof

3b

4.)

triple $\mathbb{P}$

- dipole formalism
- CASCADE

5.) color connection

2.)

6.) forward jets + MI