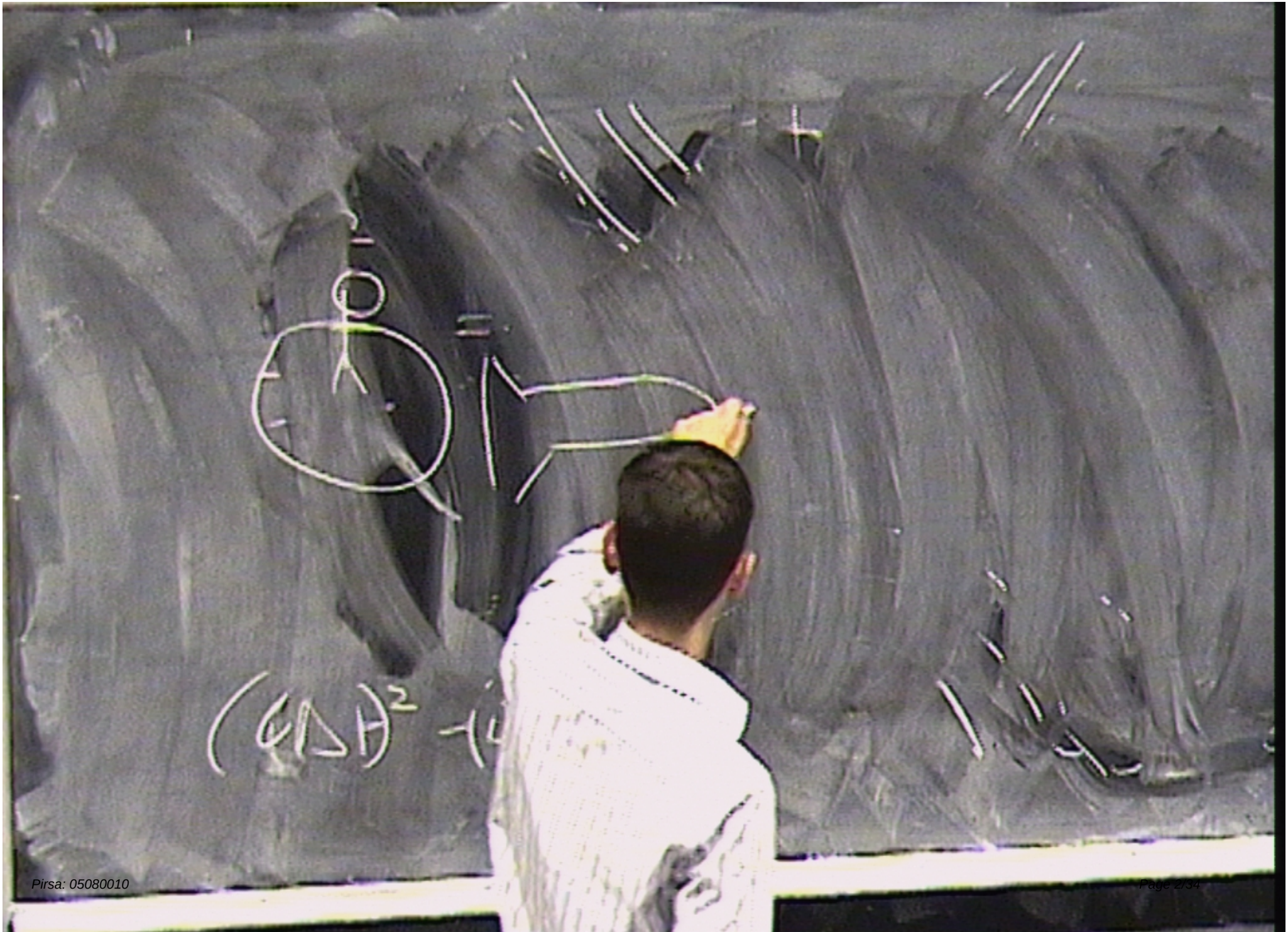
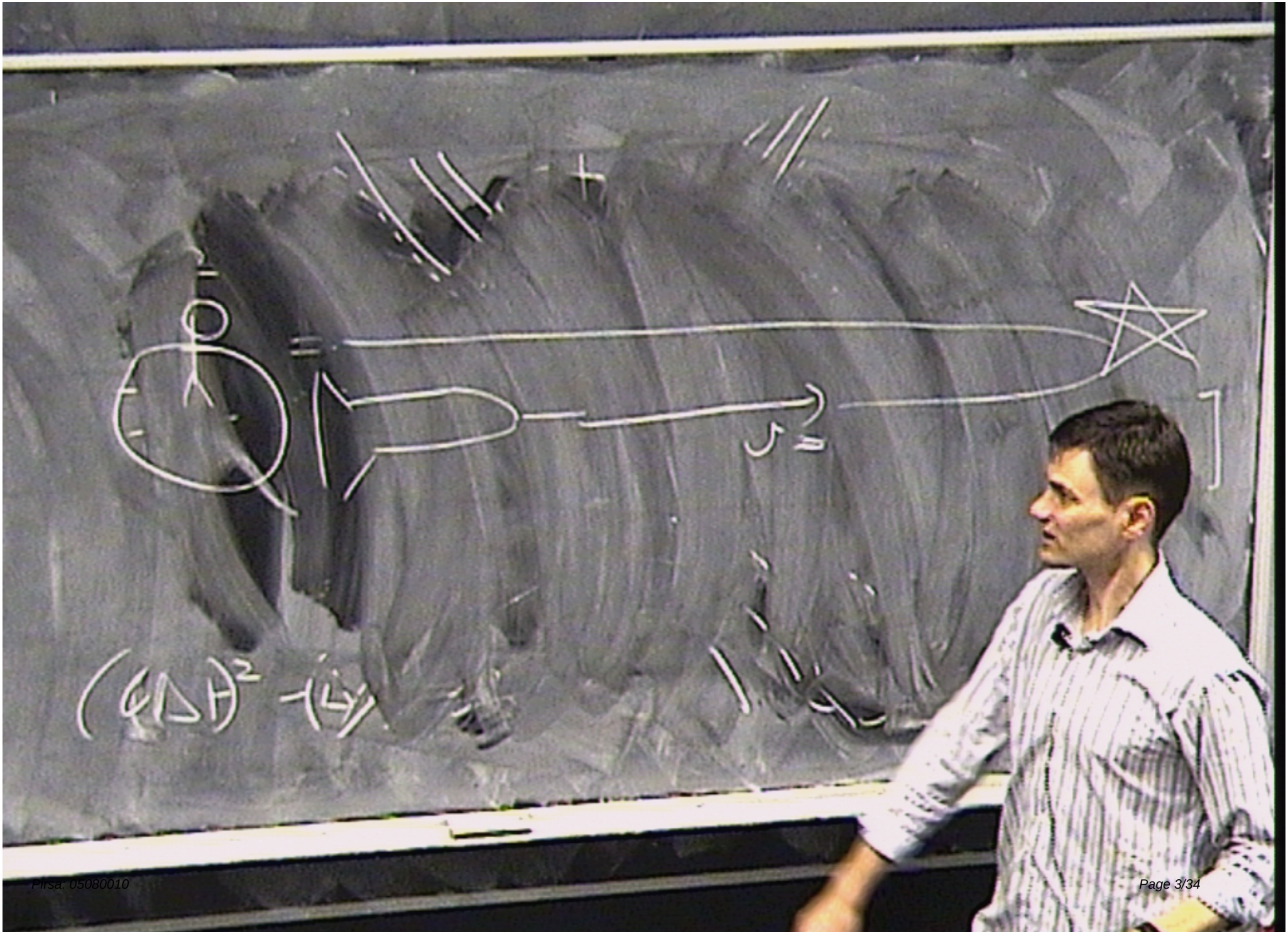
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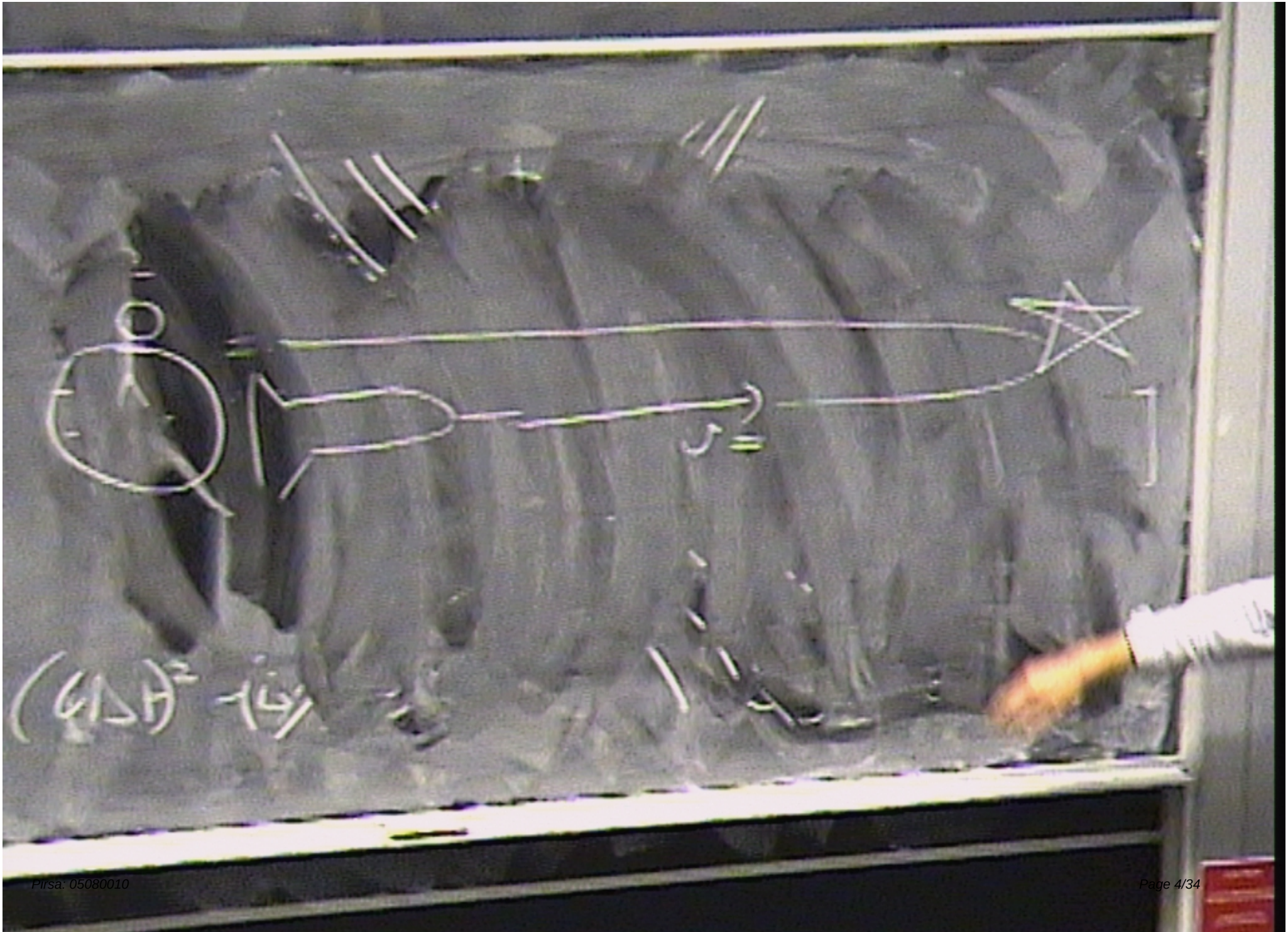
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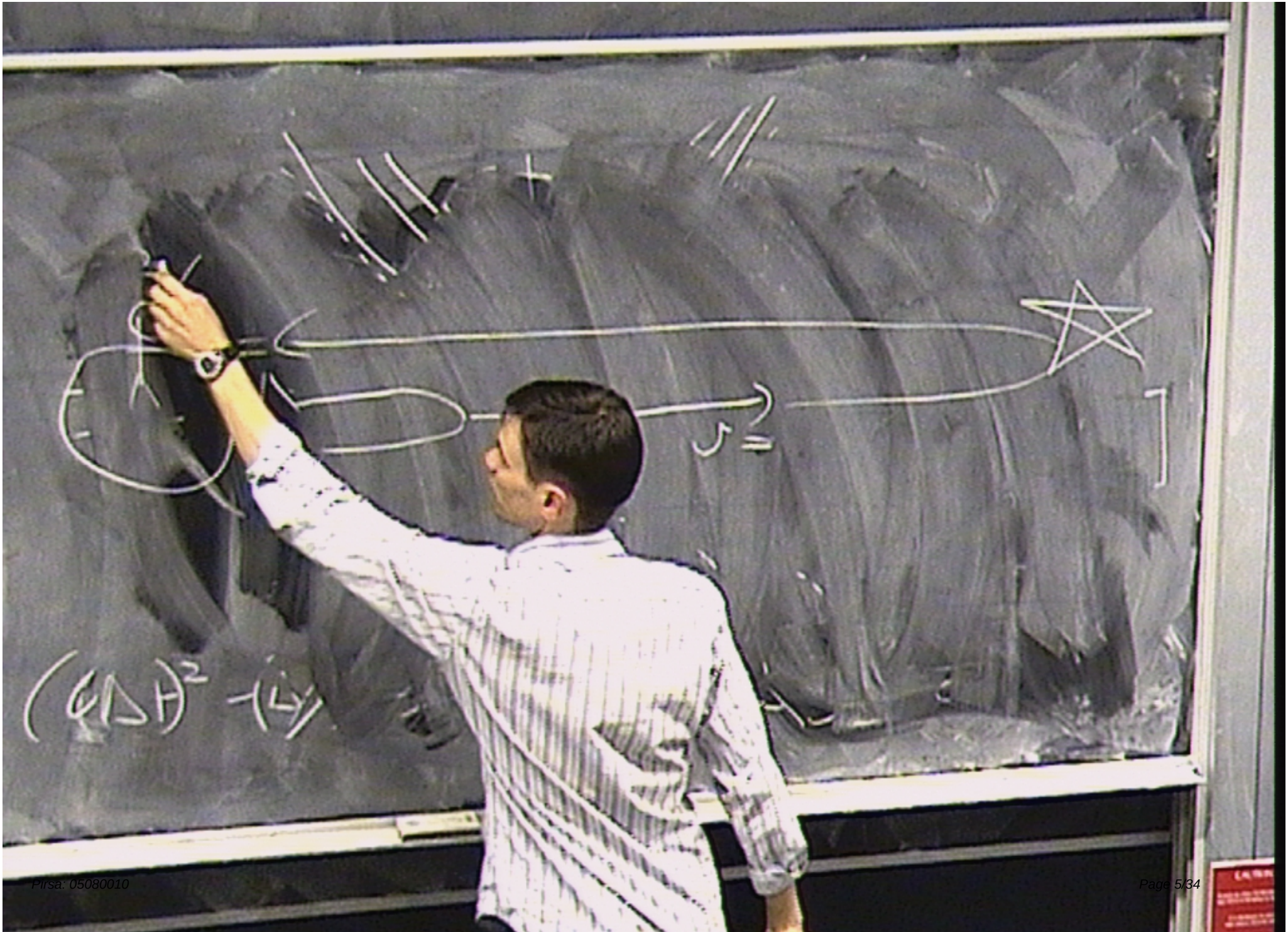
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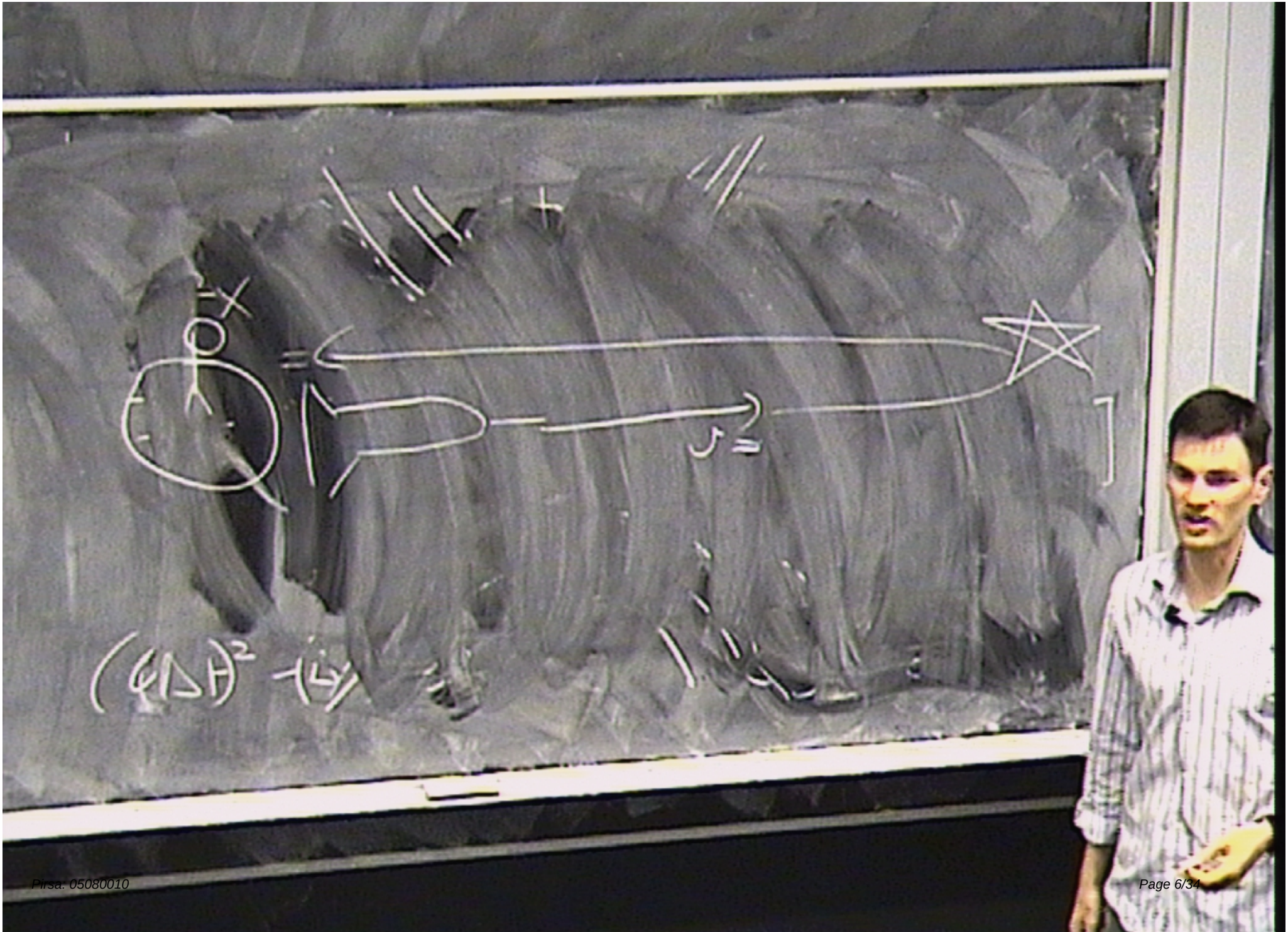
Abstract:

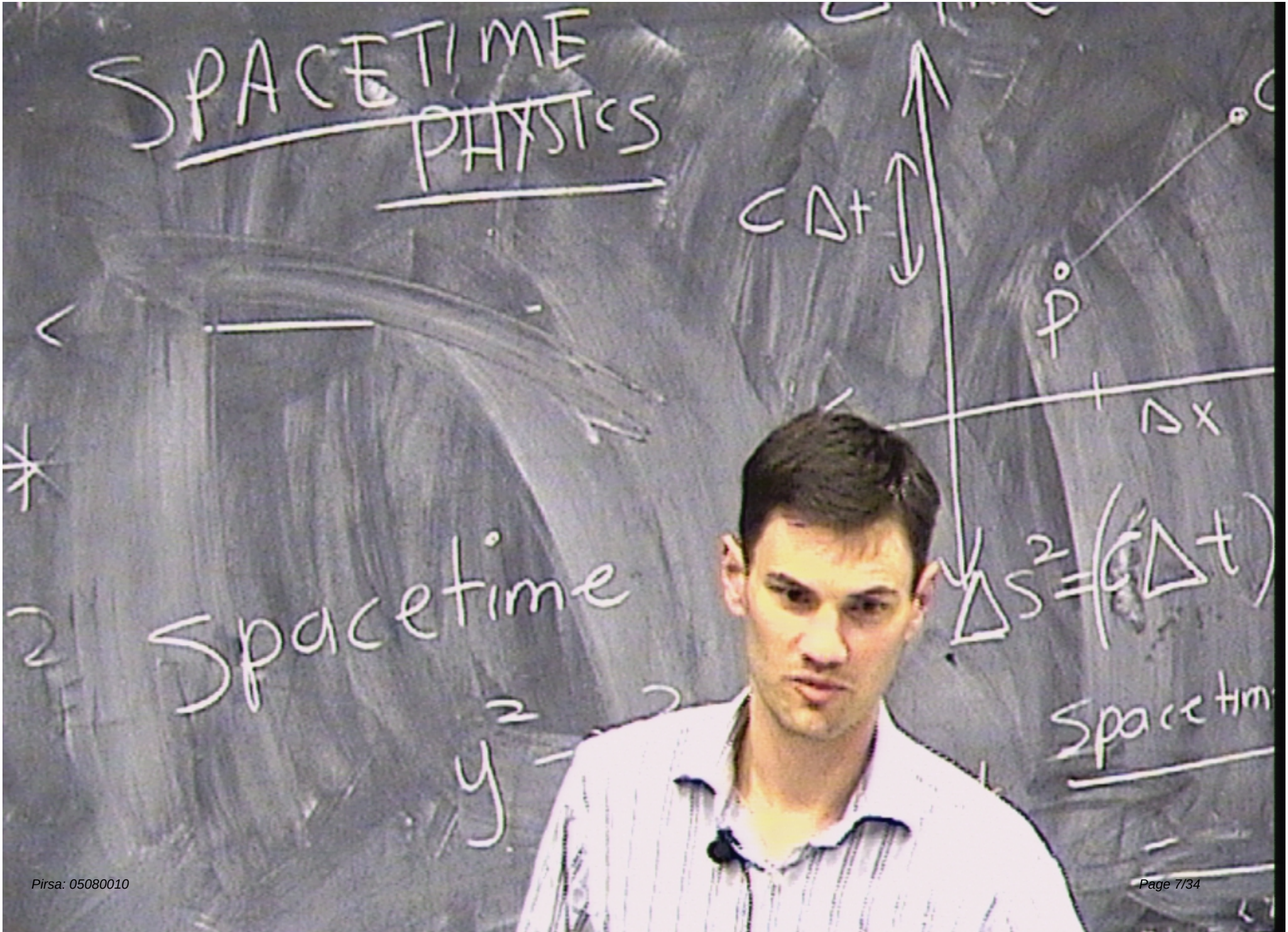

$(\psi|\Delta H)^2$

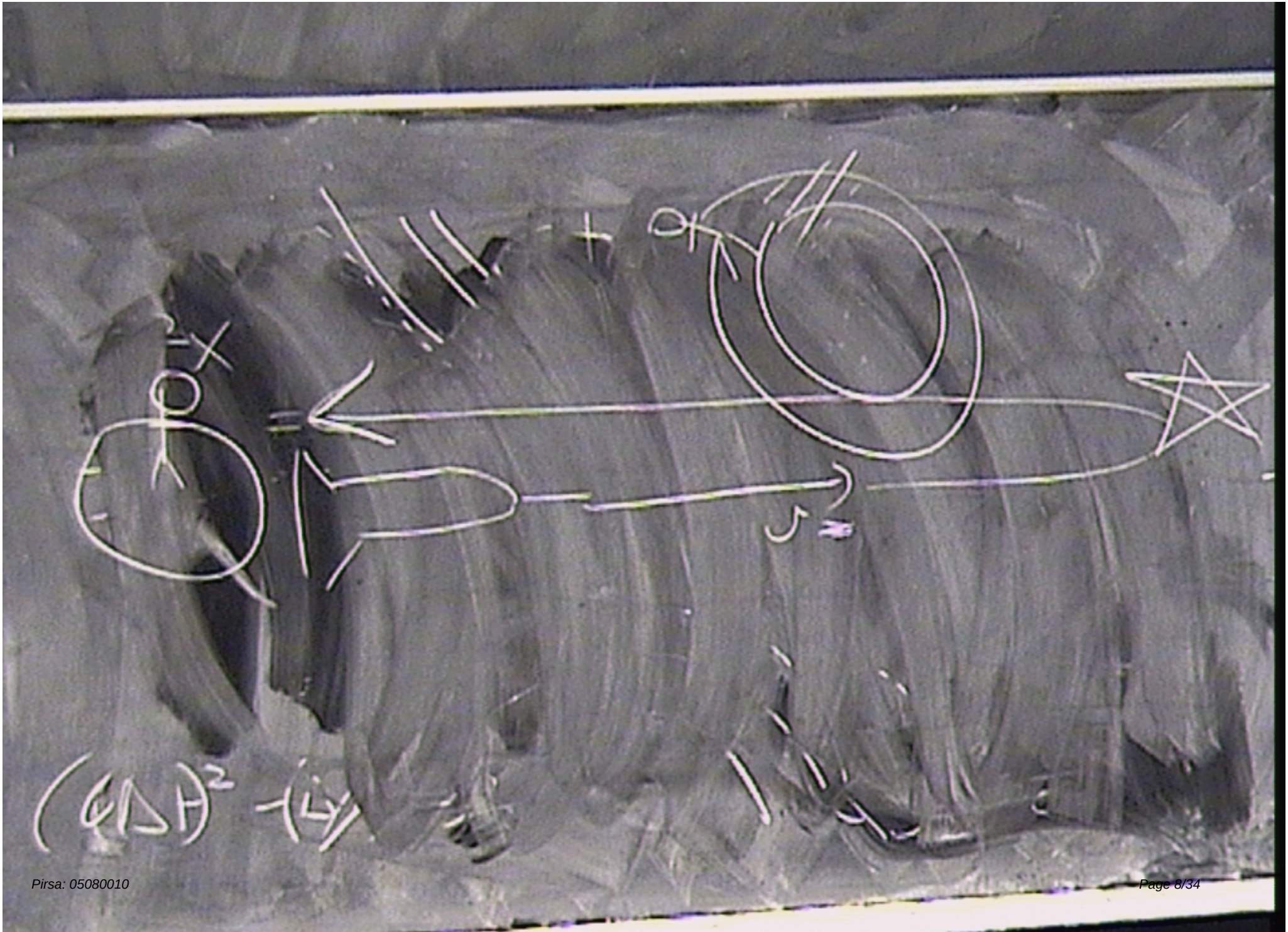


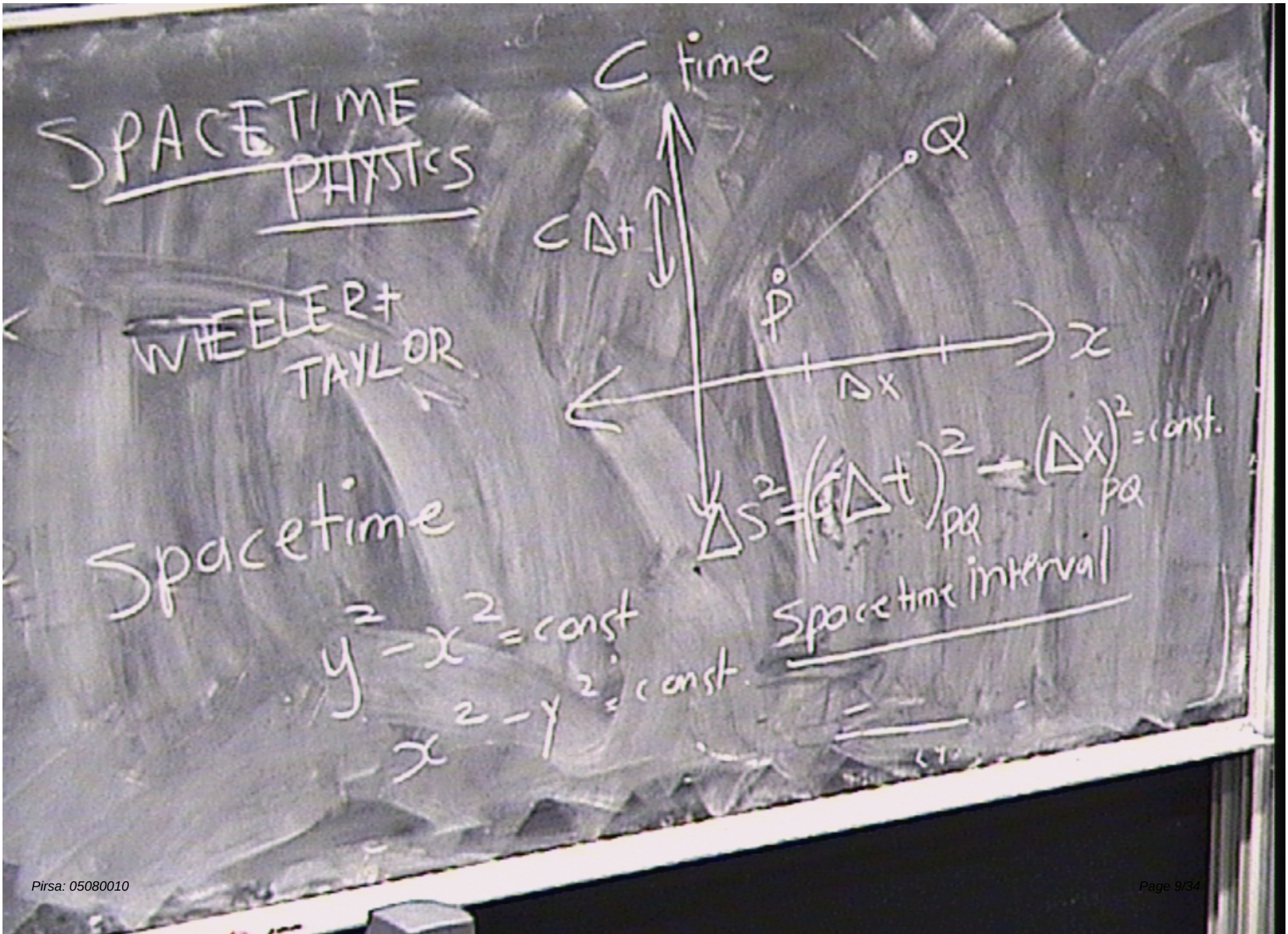


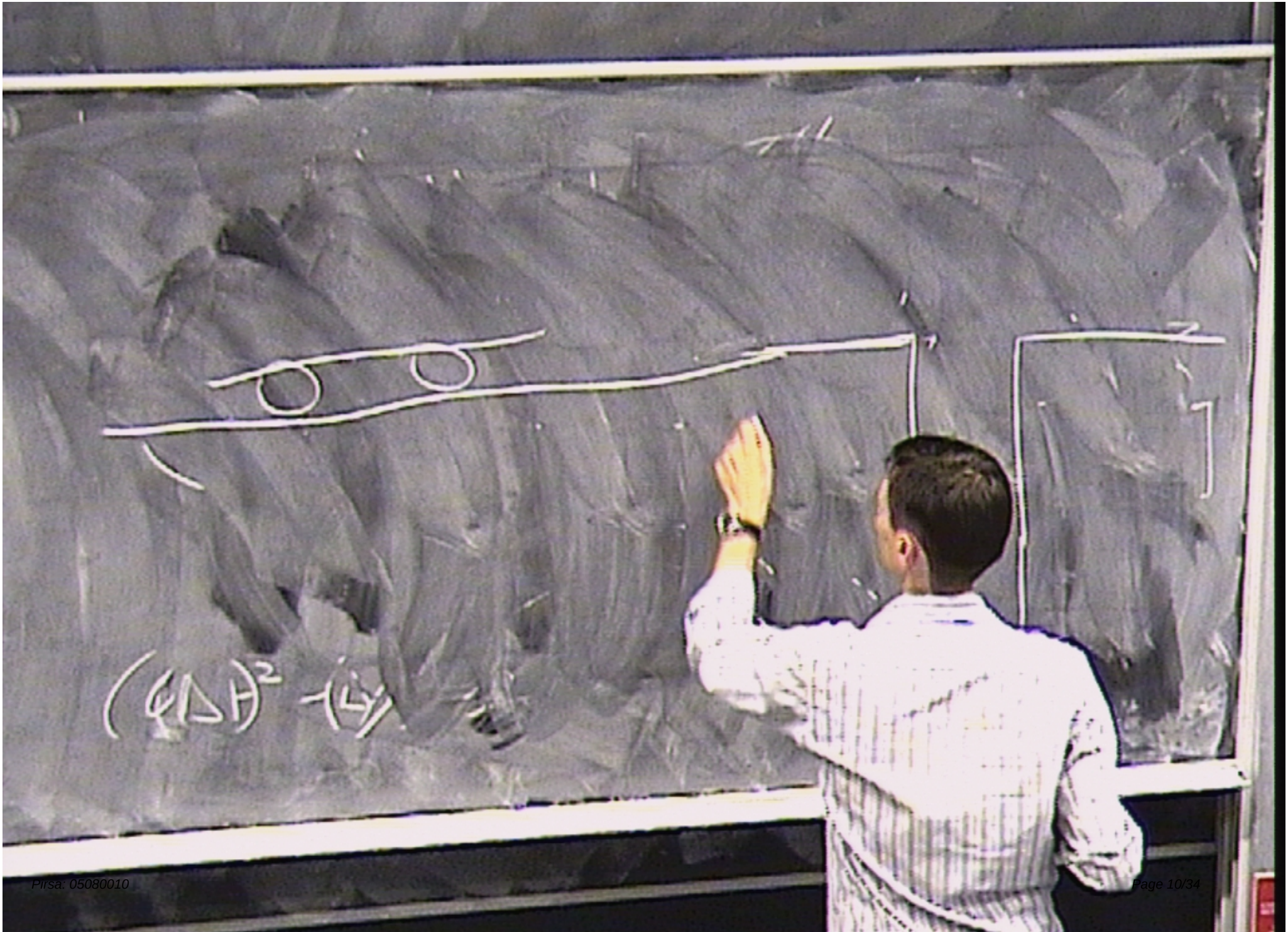


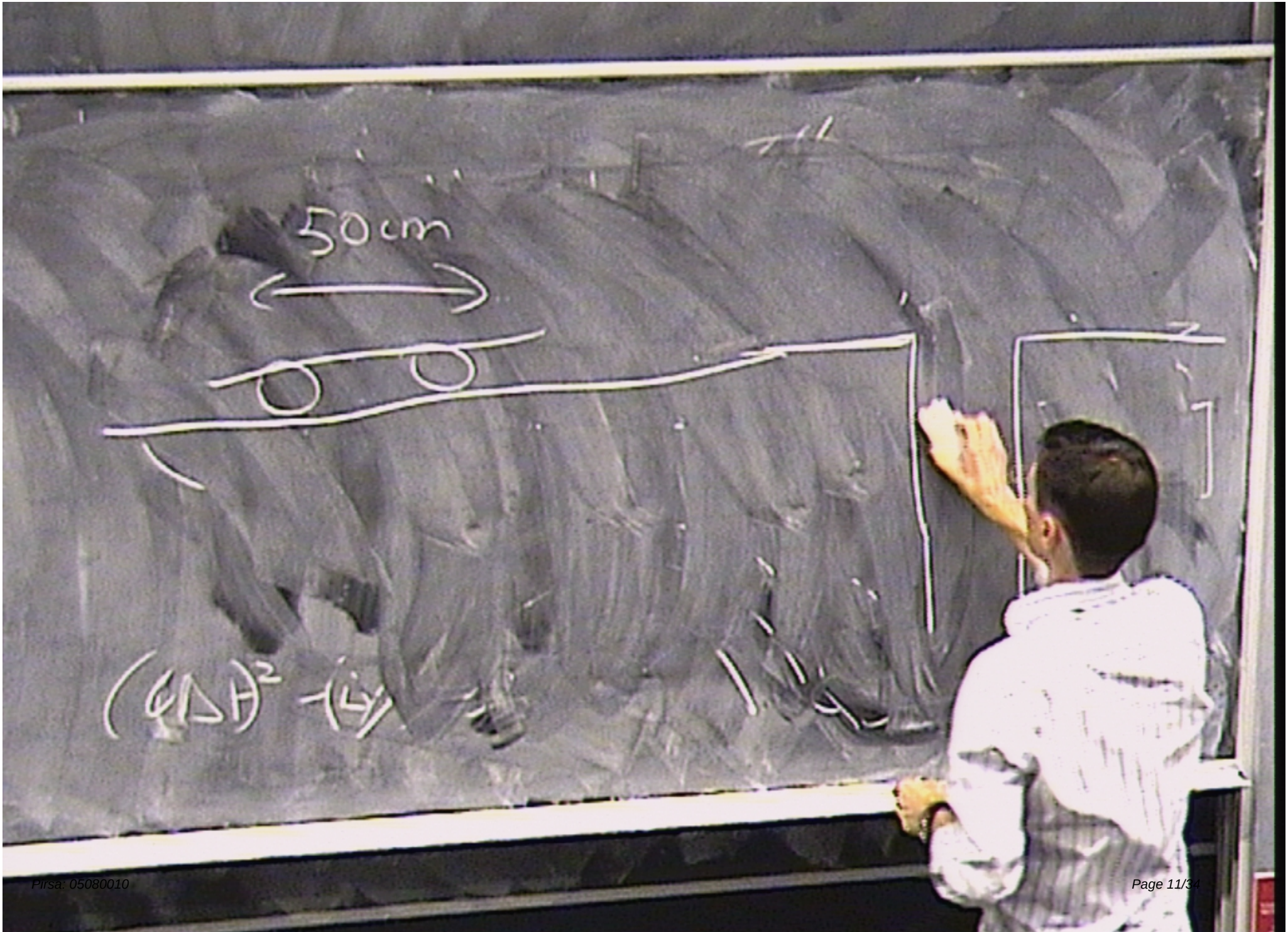


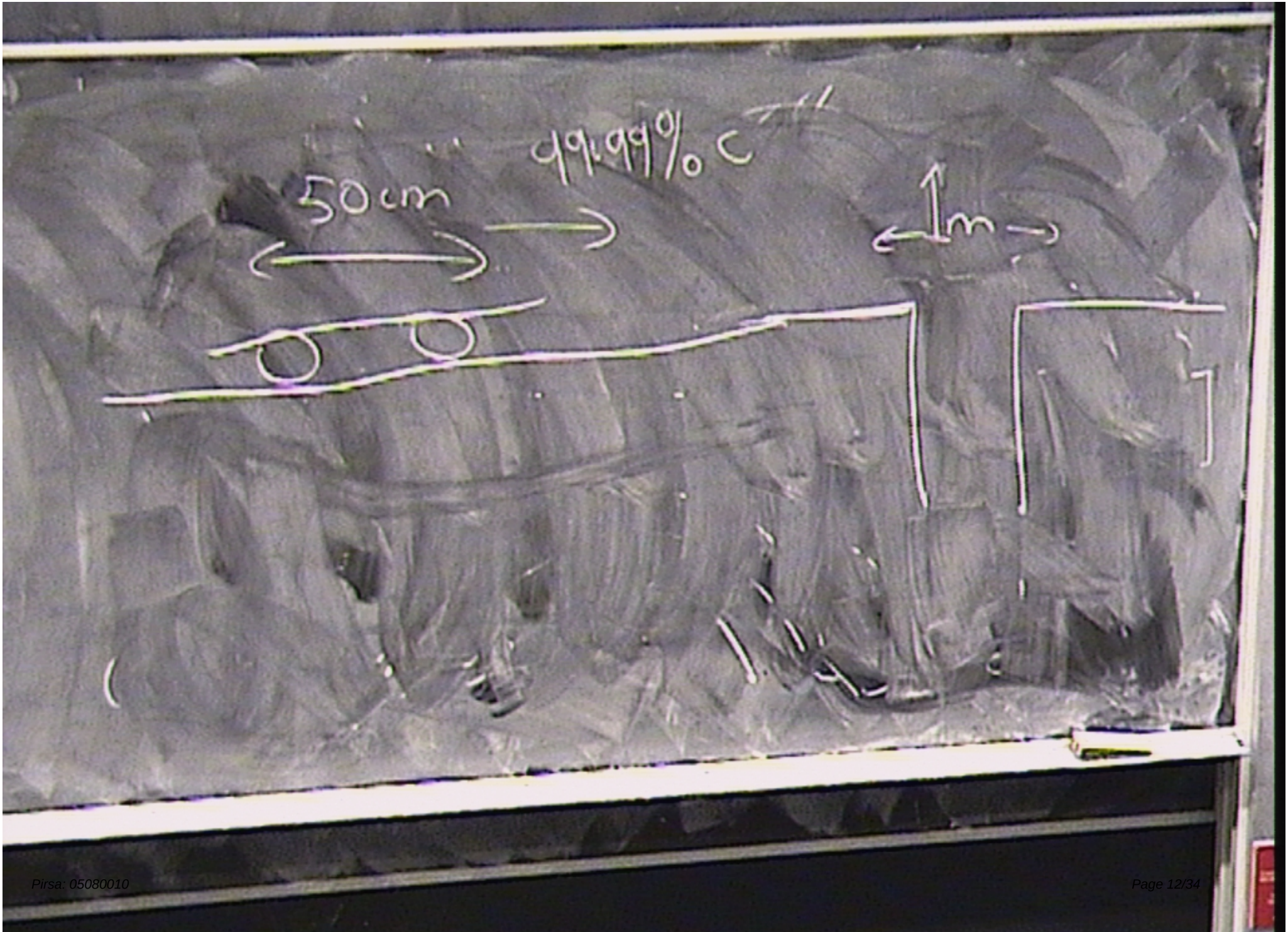

SPACETIME
PHYSICS
cΔt
P
Δx
Spacetime
$\Delta s^2 = (c\Delta t)$
Spacetim

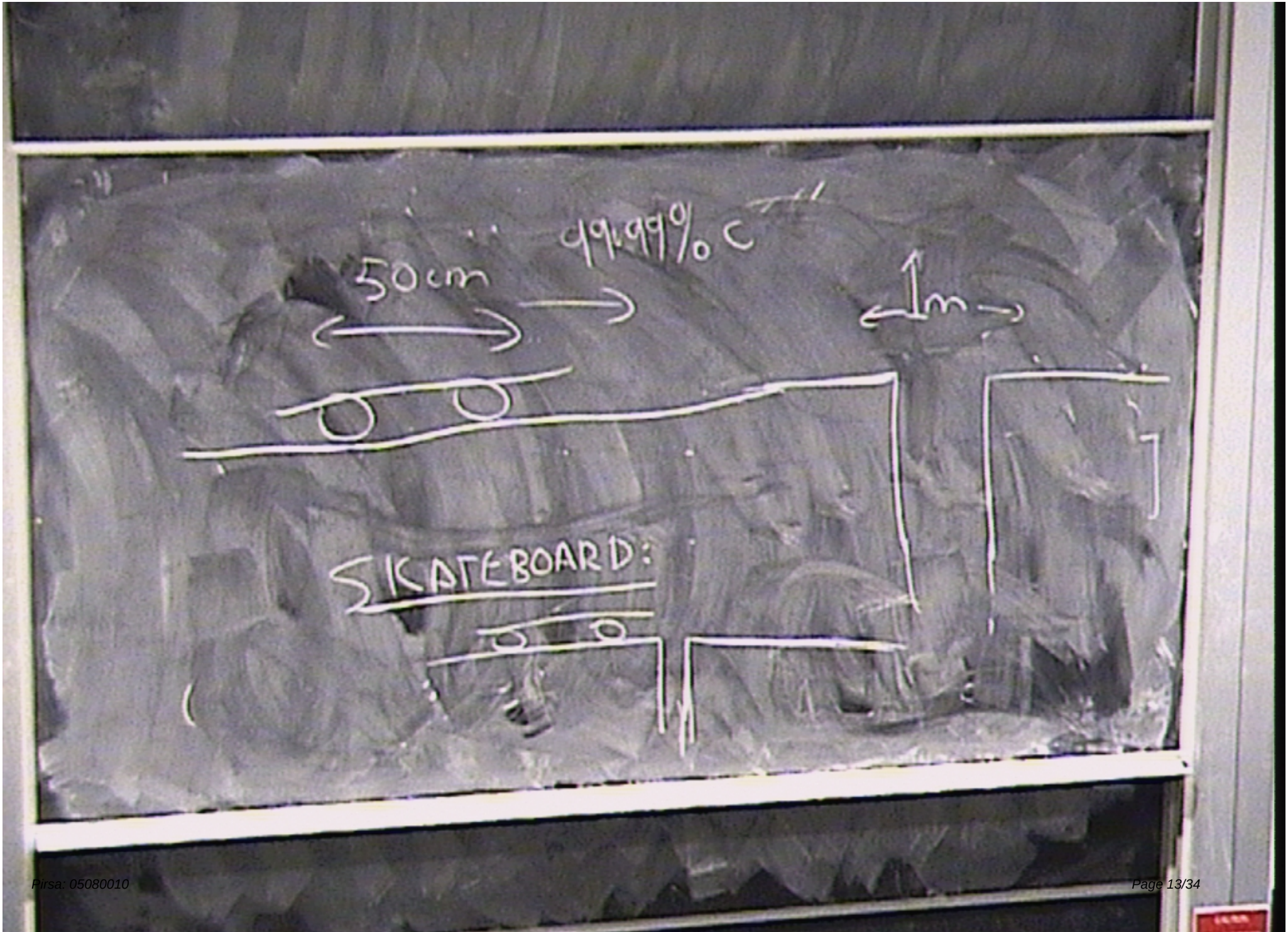



SPACETIME PHYSICS
WHEELER + TAYLOR
c time
Q
P
cΔt
x
Δx
Spacetime
$y^2 - x^2 = \text{const}$
$x^2 - y^2 = \text{const}$
$\Delta s^2 = (c\Delta t)^2_{PQ} - (\Delta x)^2_{PQ} = \text{const.}$
Spacetime interval

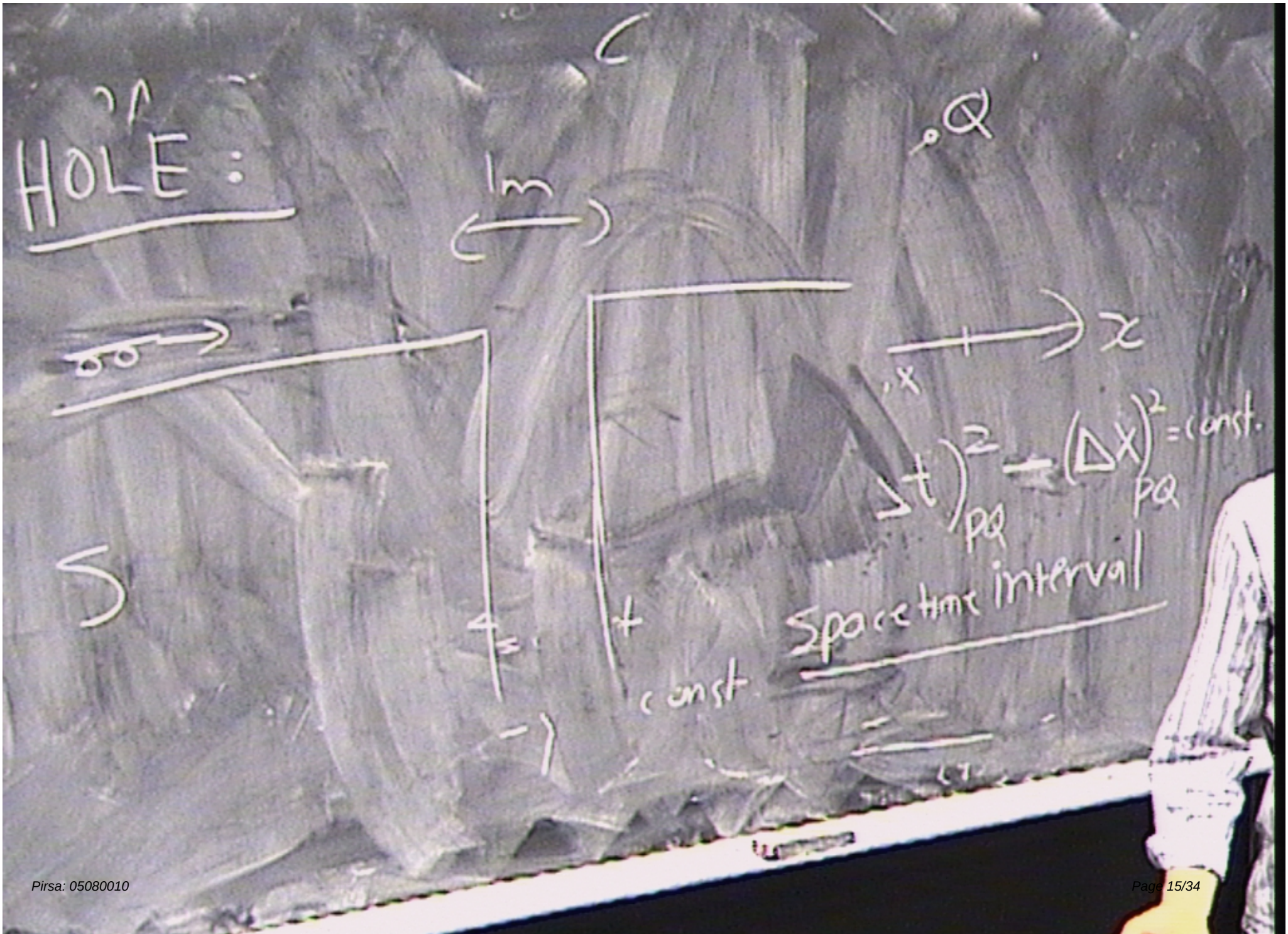

$(\varphi\Delta H)^2 - (\varphi)$

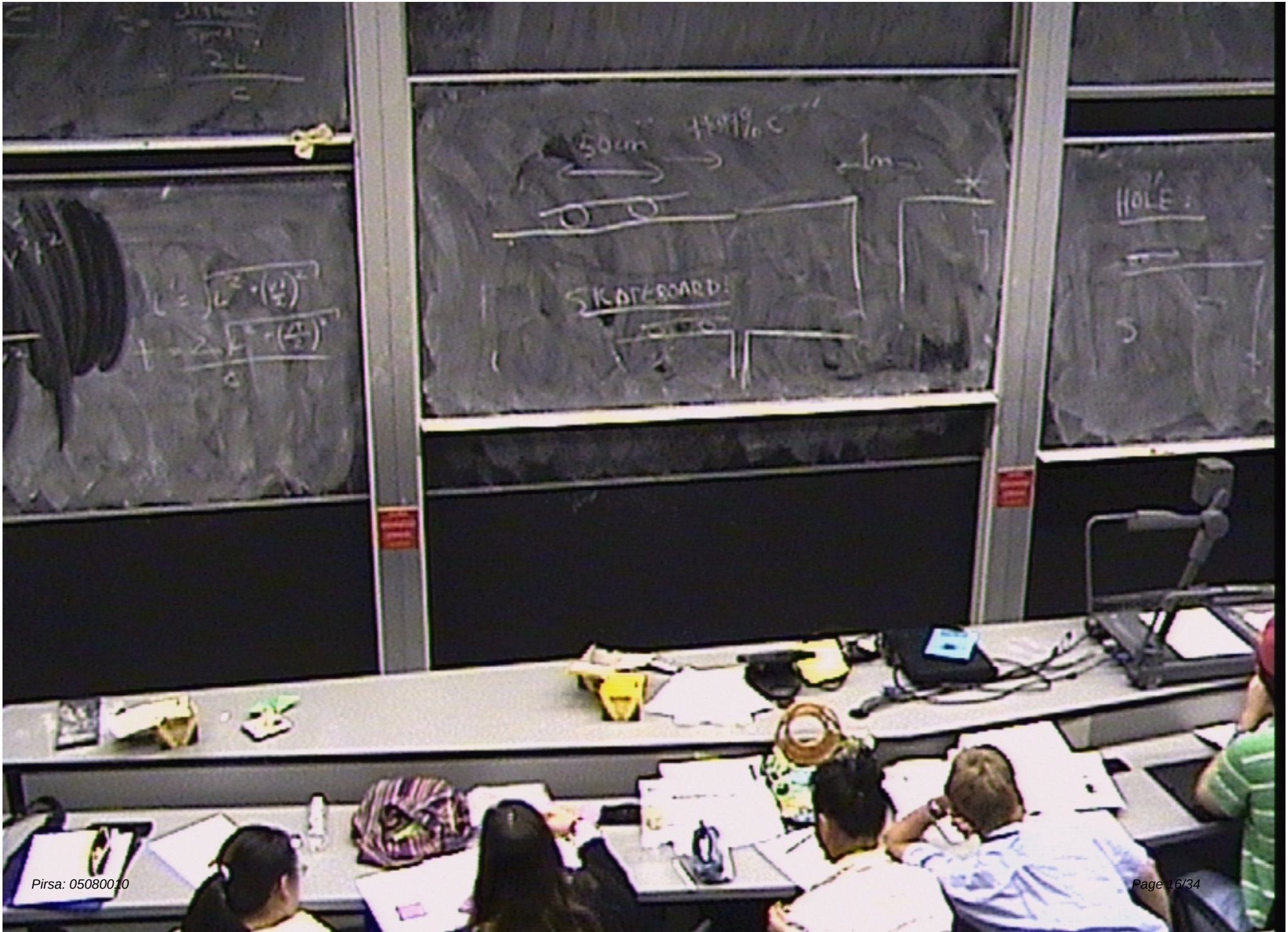

50 cm

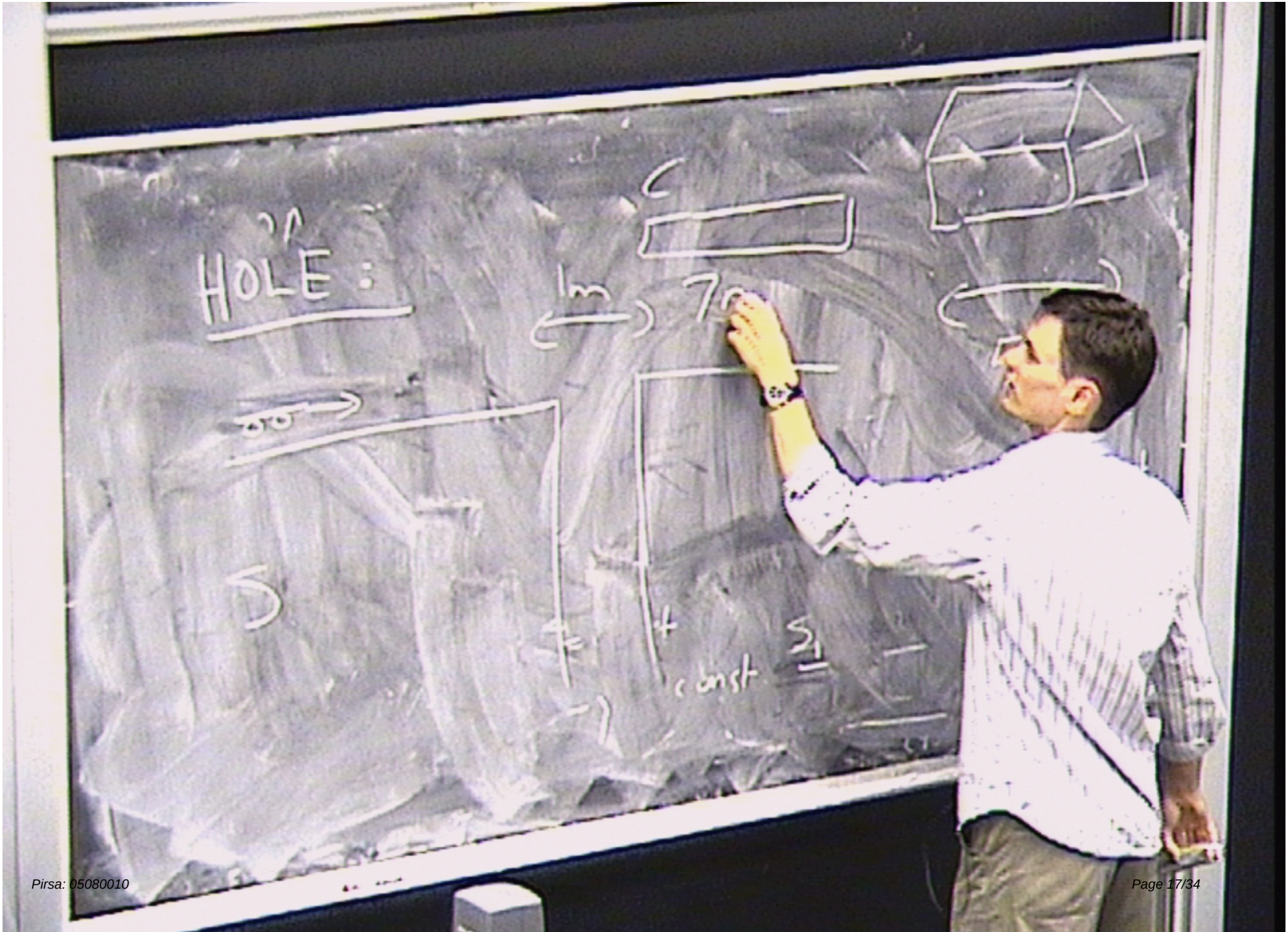

50 cm
99.99% c
1m

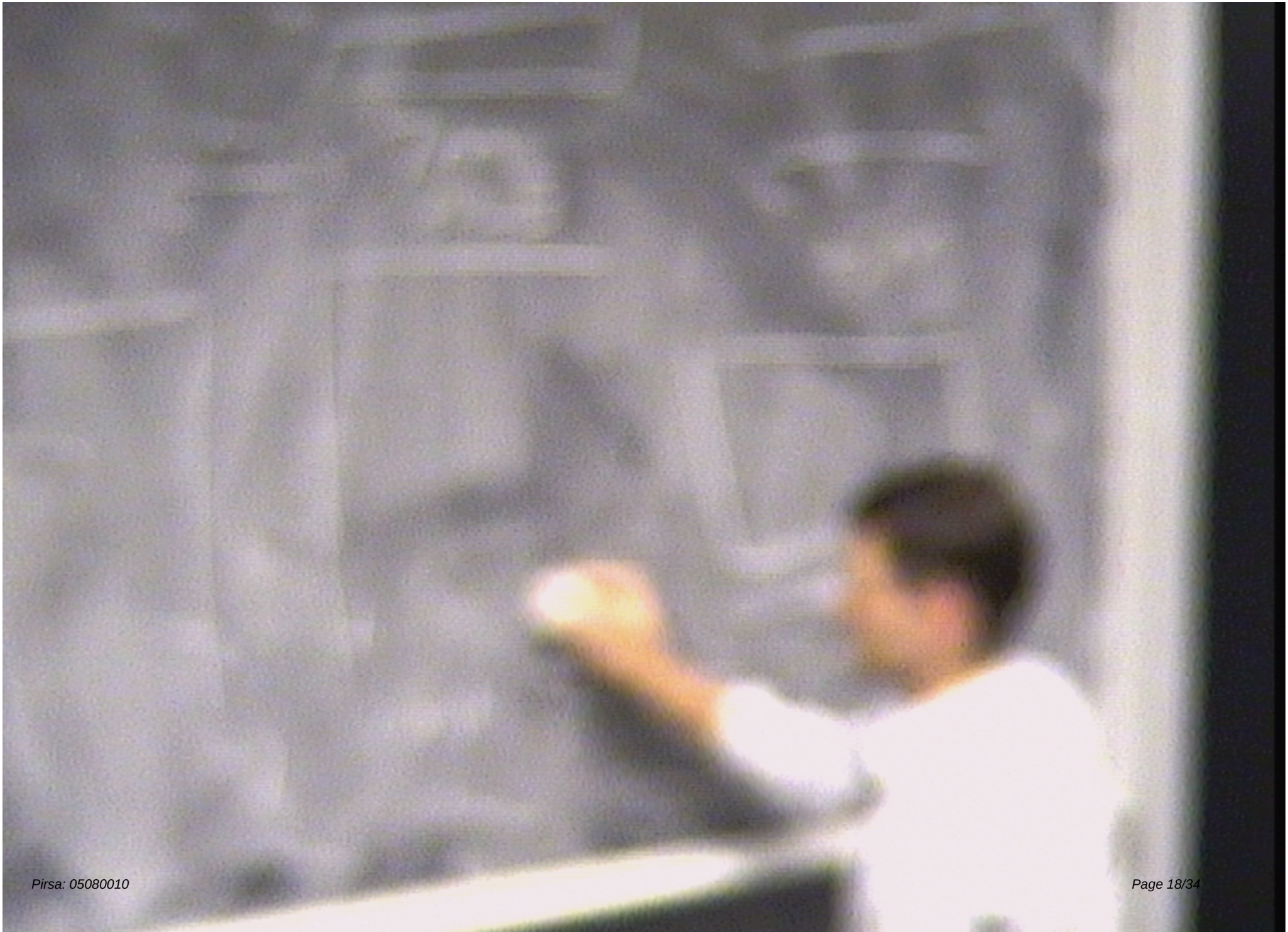

99.99% c
50cm
1m
SKATEBOARD:


HOLE:
Im
const


HOLE:
Im
Q
x
x
$(\Delta t)^2_{PQ} - (\Delta x)^2_{PQ} = \text{const.}$
S'
t
const
Spacetime interval

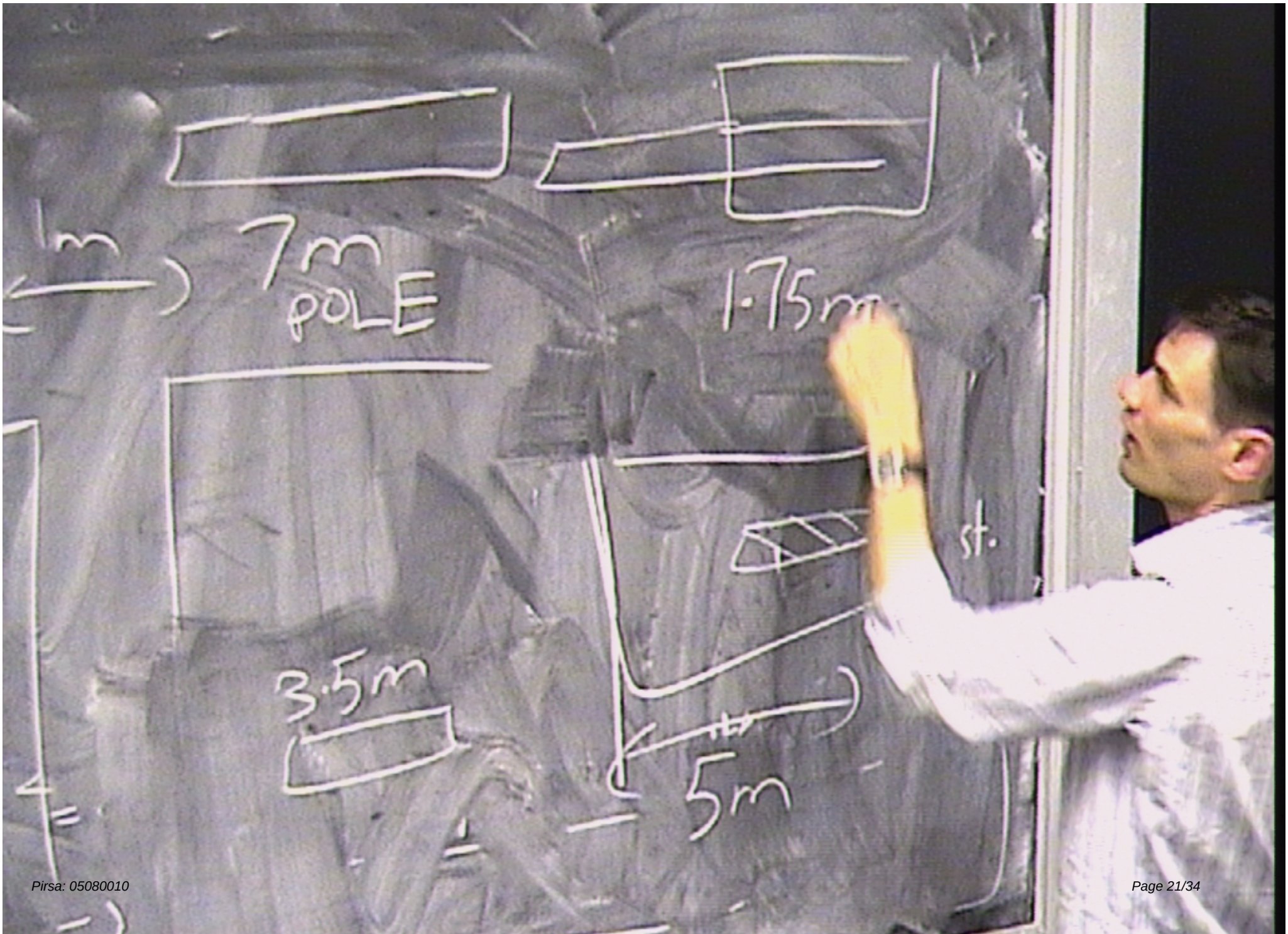

50cm
1m
SKATEBOARD
HOLE

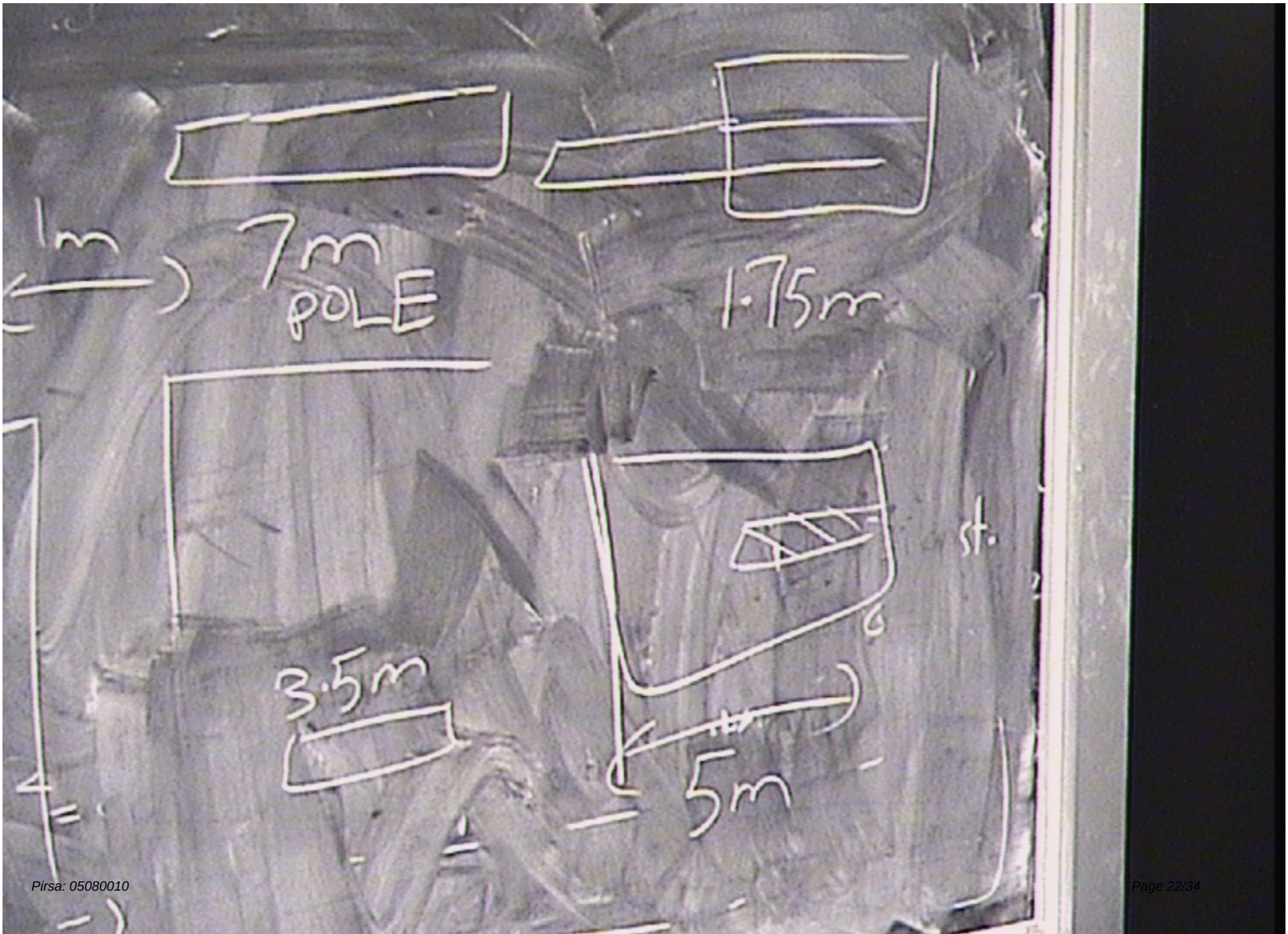

HOLE :
Im
const

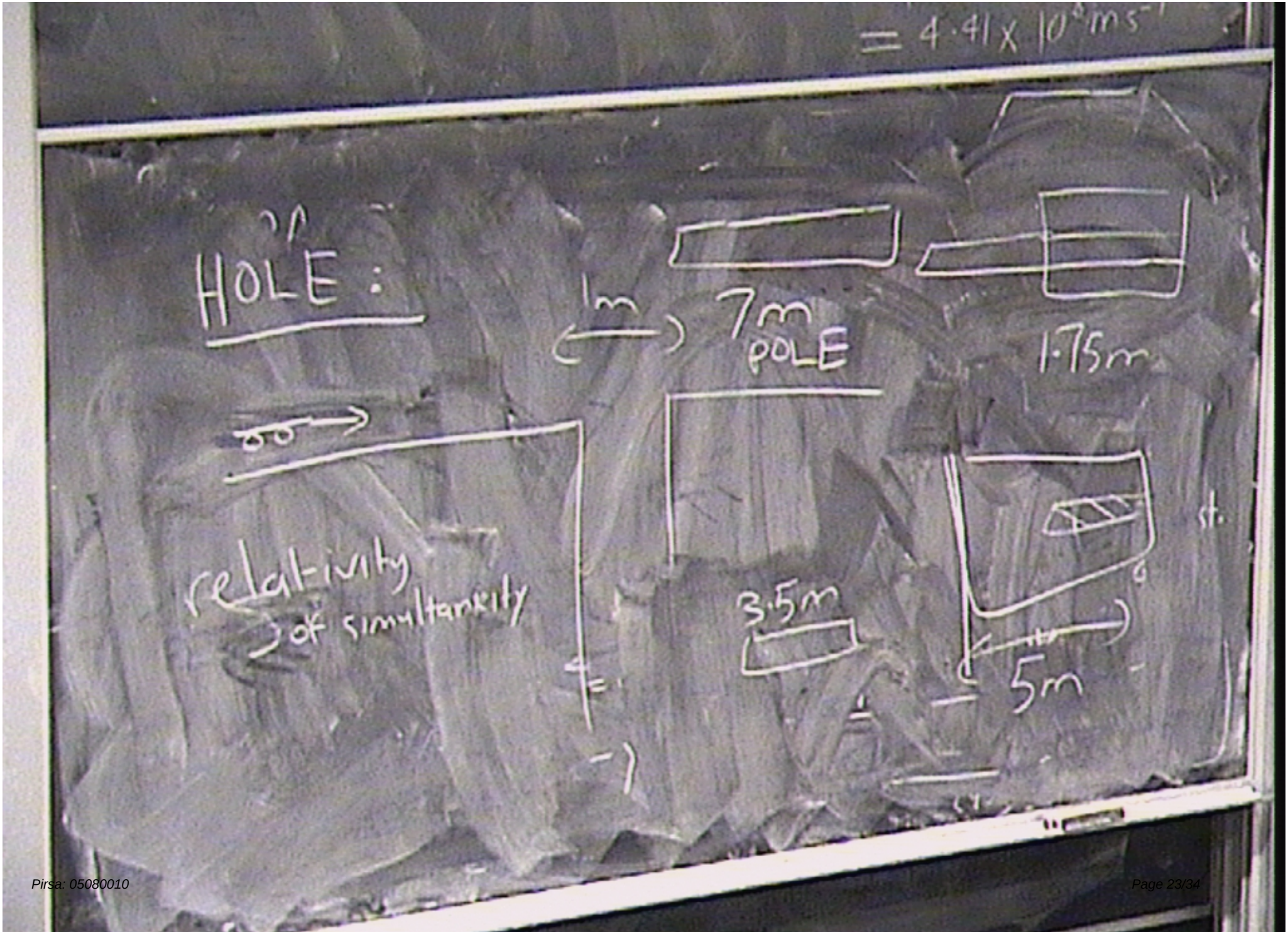



1m
7m
POLE
5m
st.
5m


1m
7m
POLE
5m
3.5m
5m

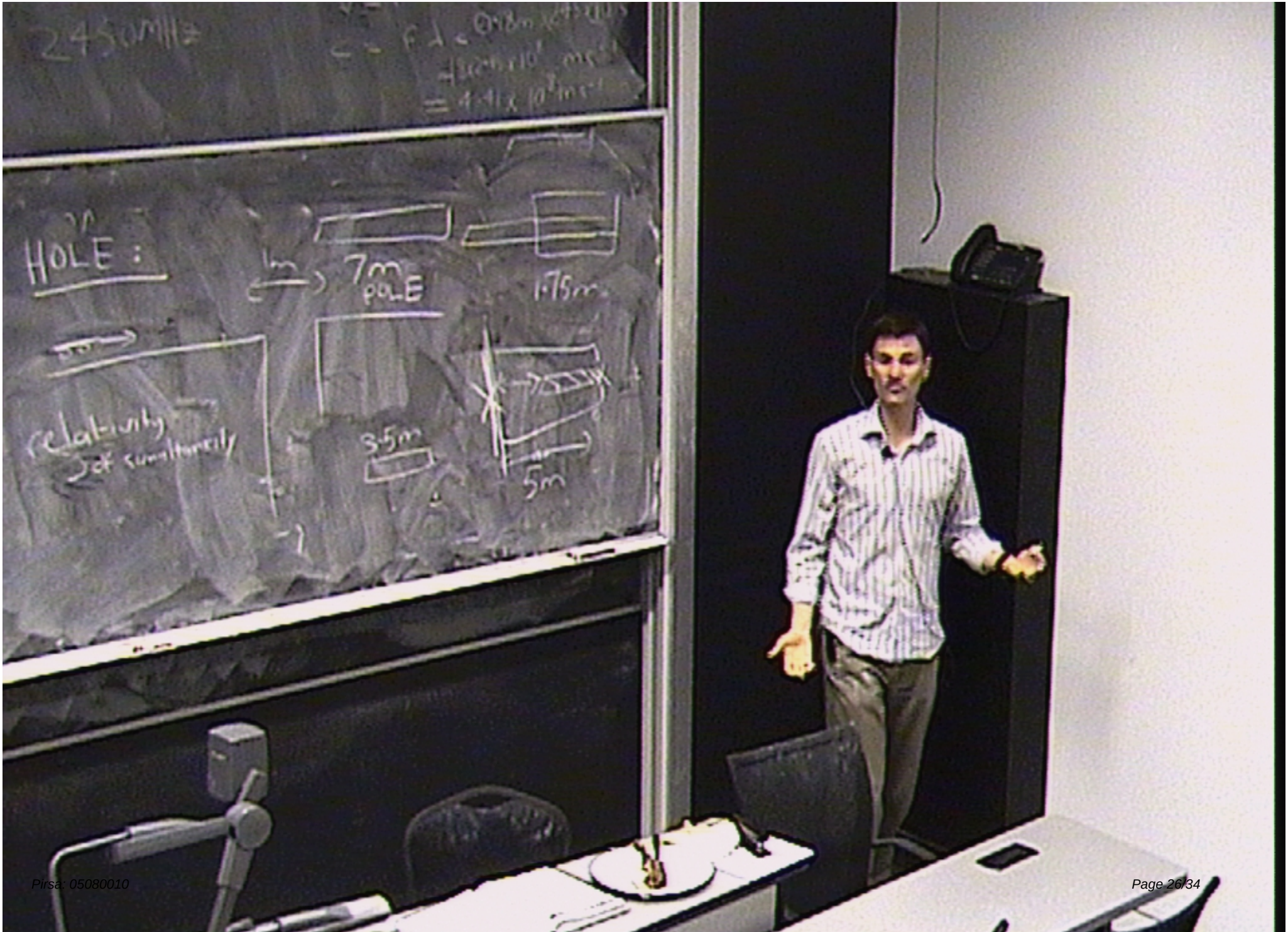

7m
POLE
1.75m
st.
3.5m
5m

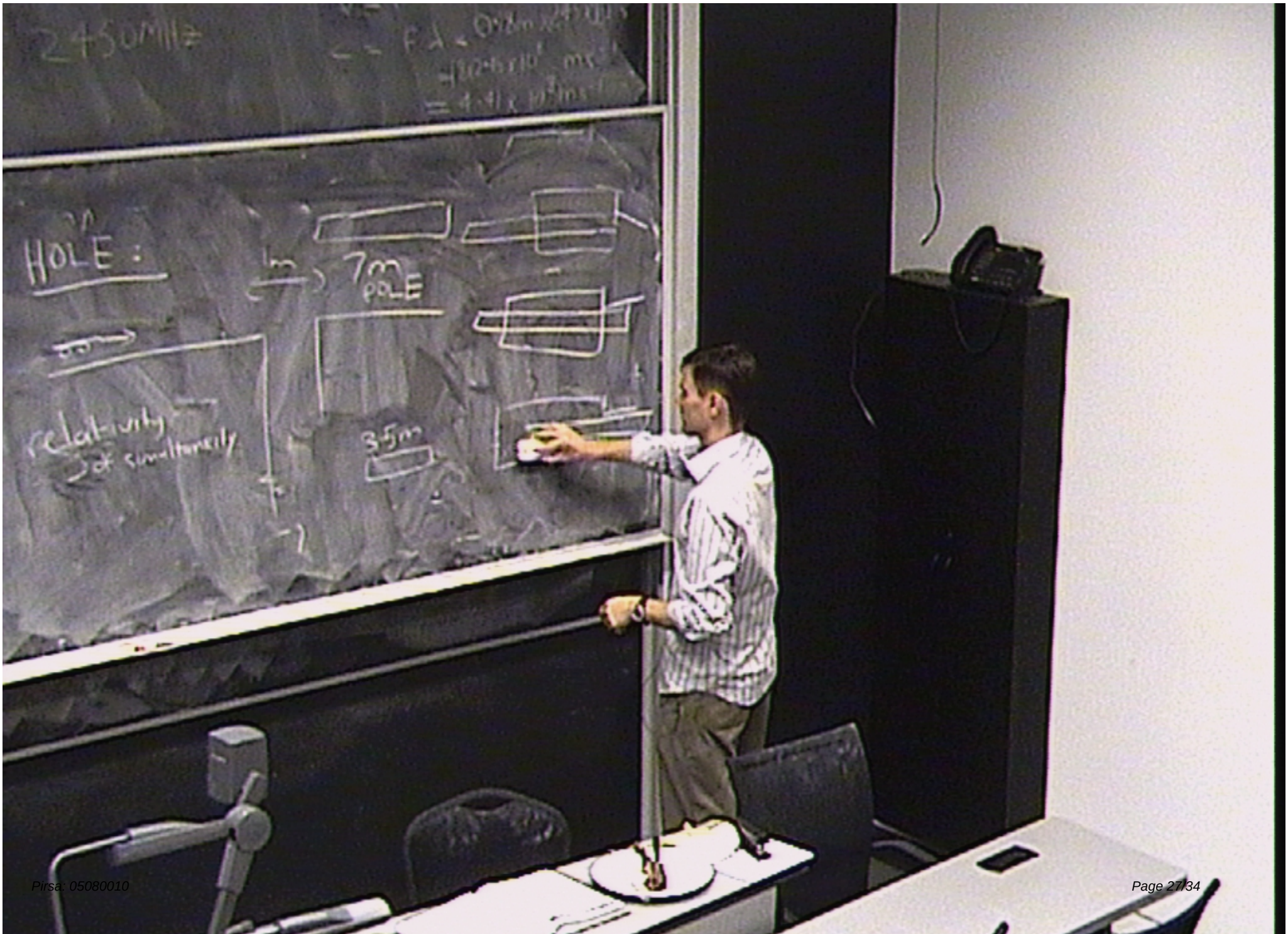

1m
7m
POLE
1.75m
st.
3.5m
5m

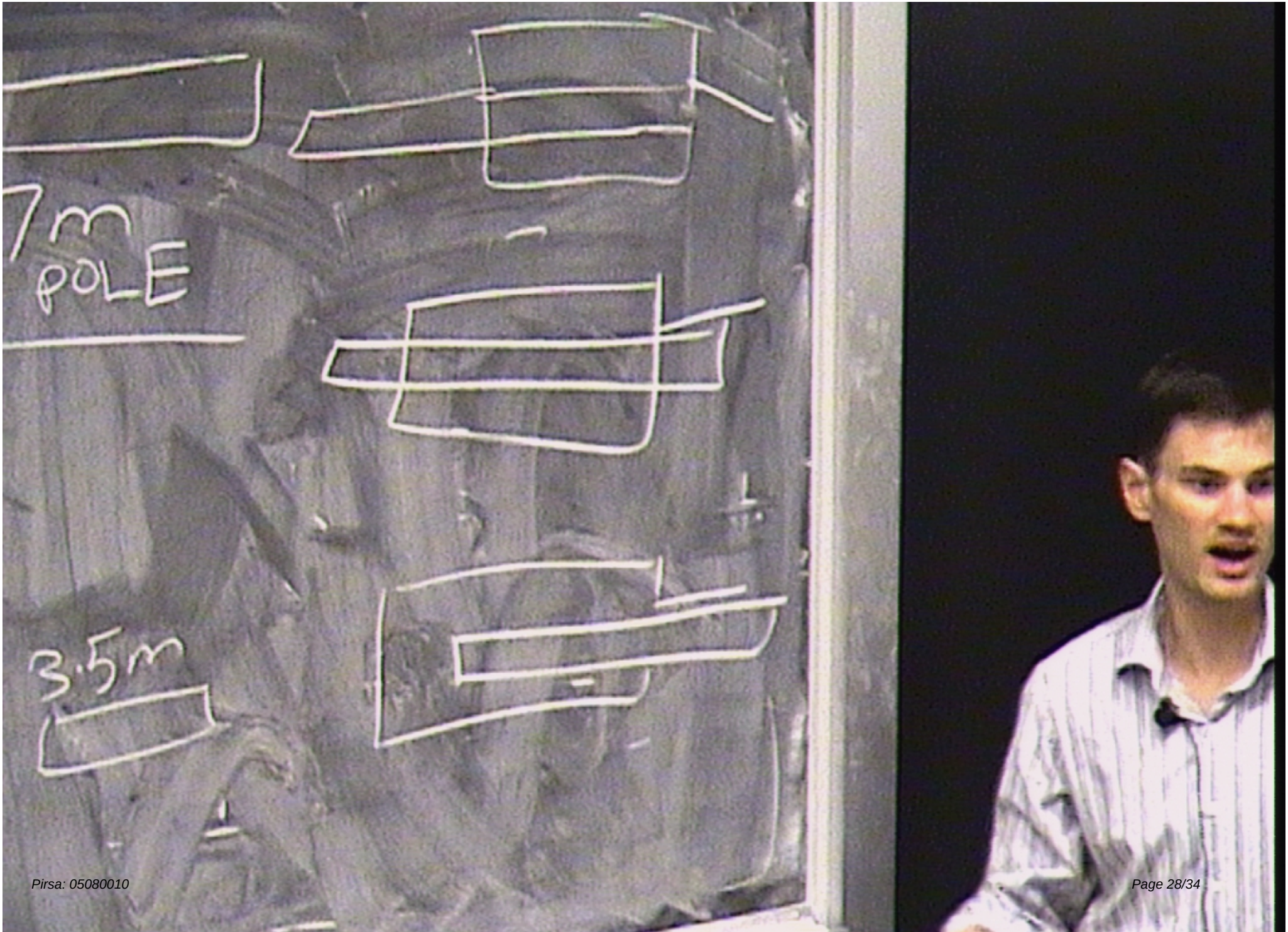

= 4·41 x 10⁸ ms⁻¹
HOLE :
1m
7m
POLE
1·75m
relativity
of simultaneity
3·5m
5m

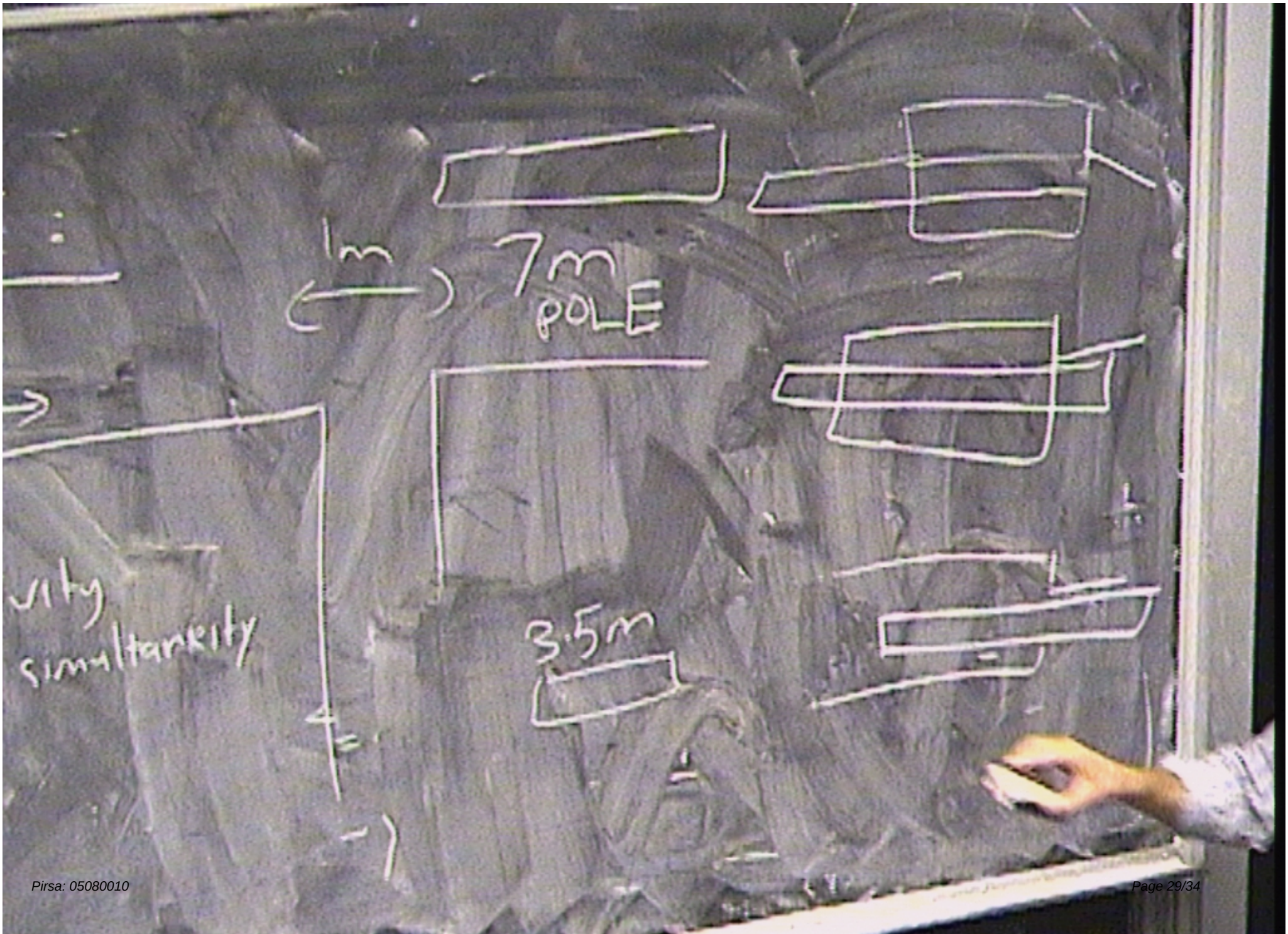

7m
POLE
1·75m
3·5m
5m

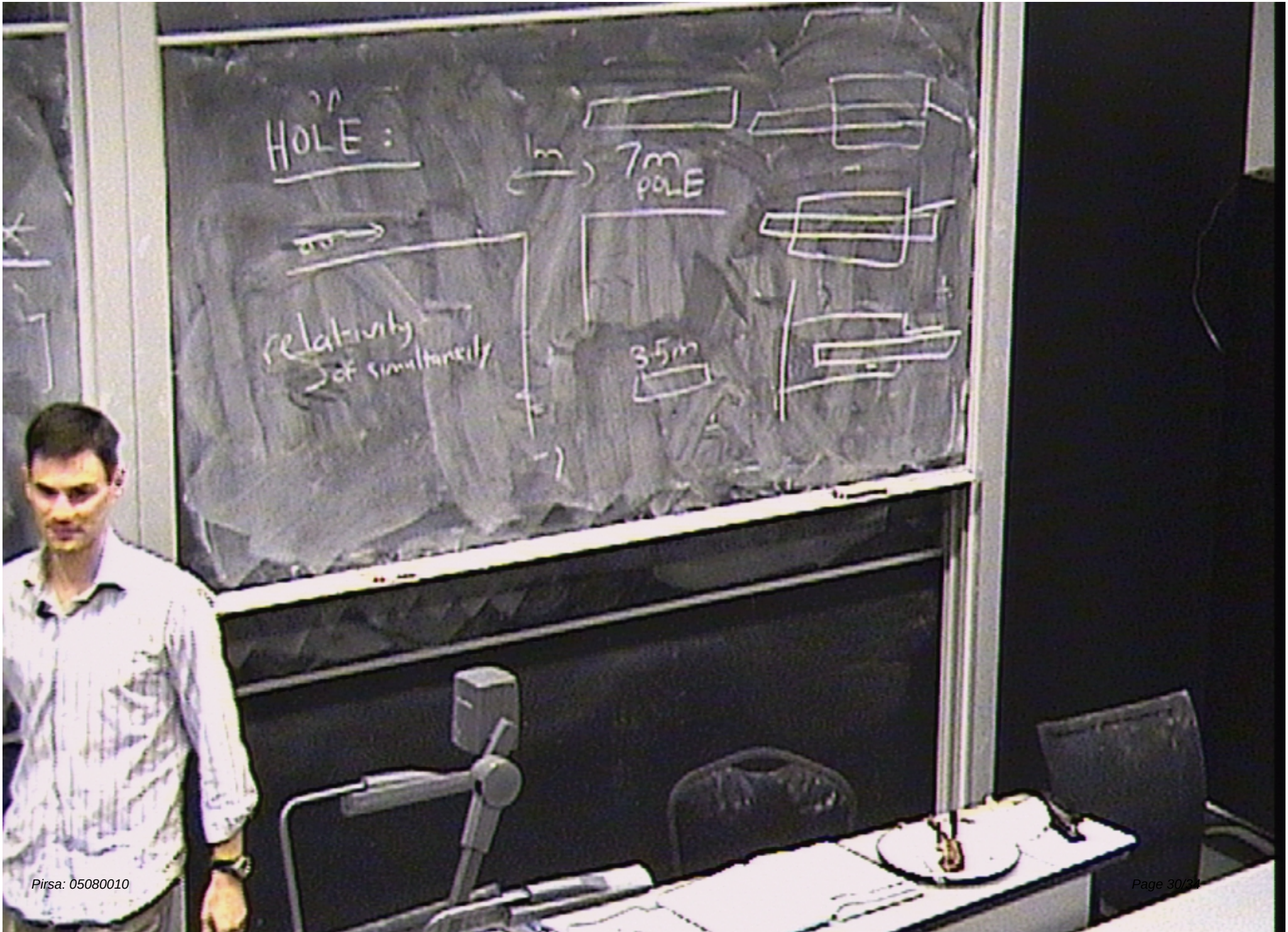

1m
7m
POLE
1·75m
3·5m
5m

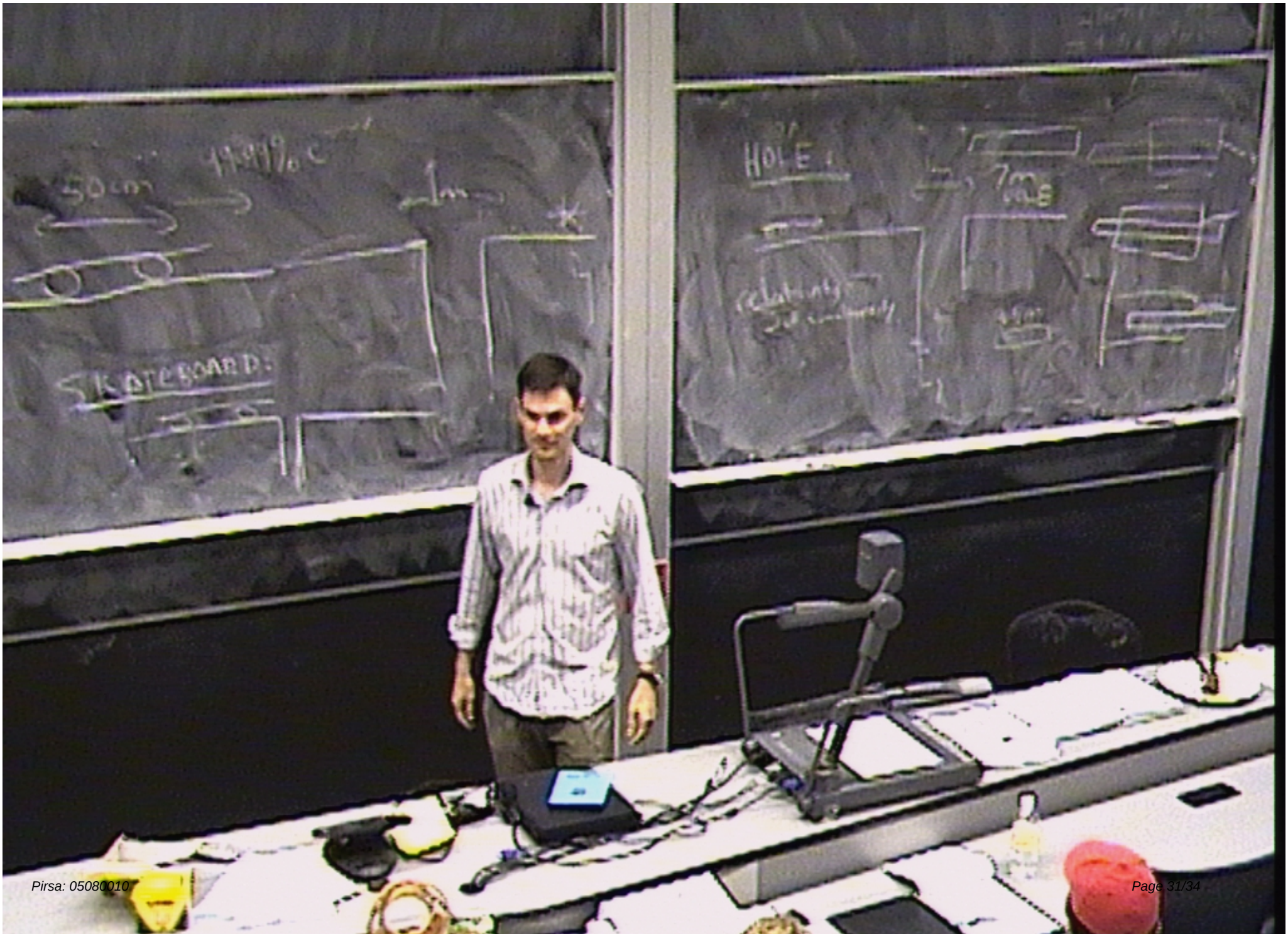

HOLE :
7m POLE
1·75m
3·5m
5m

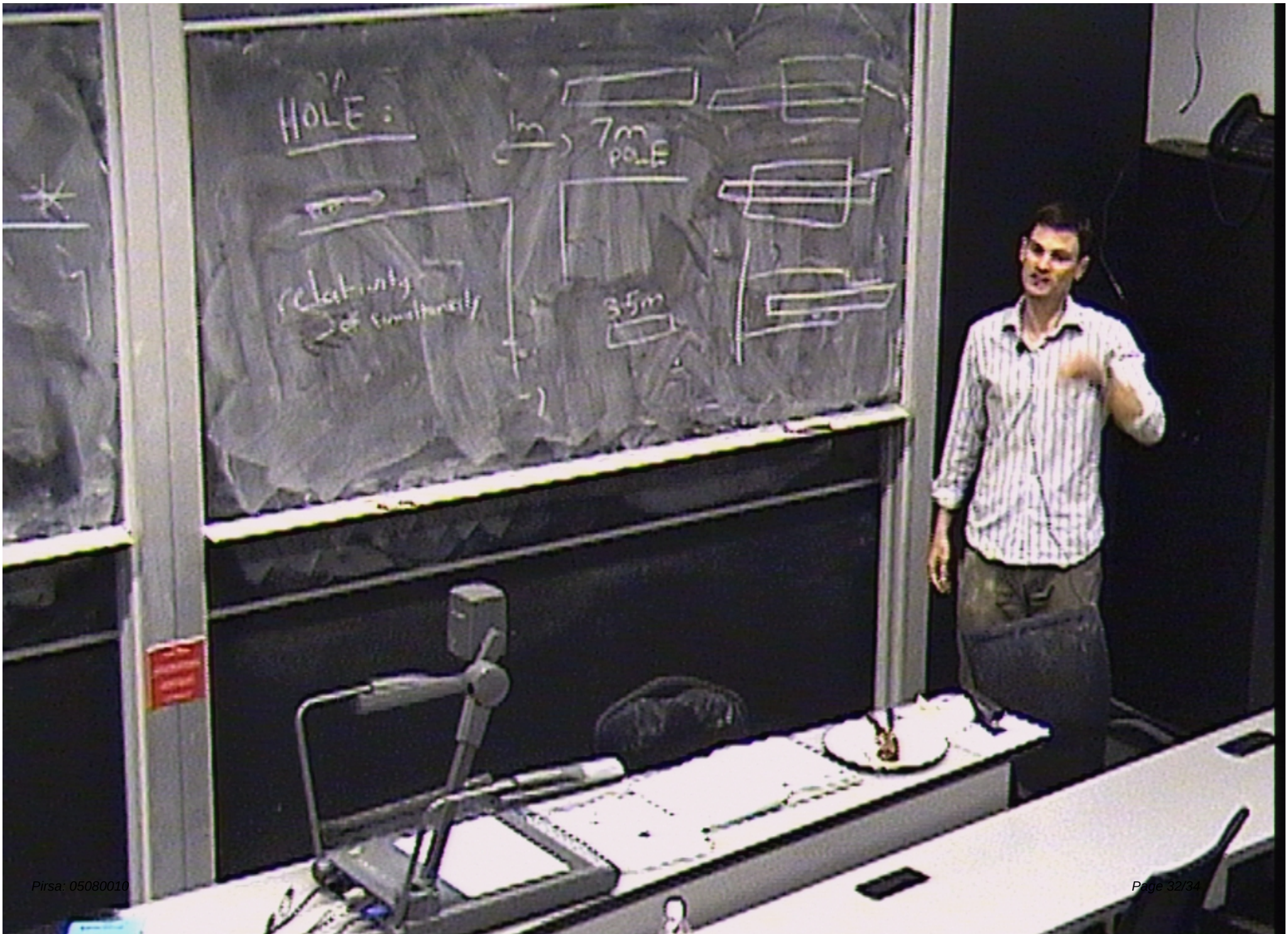

HOLE :
7m
POLE
3.5m

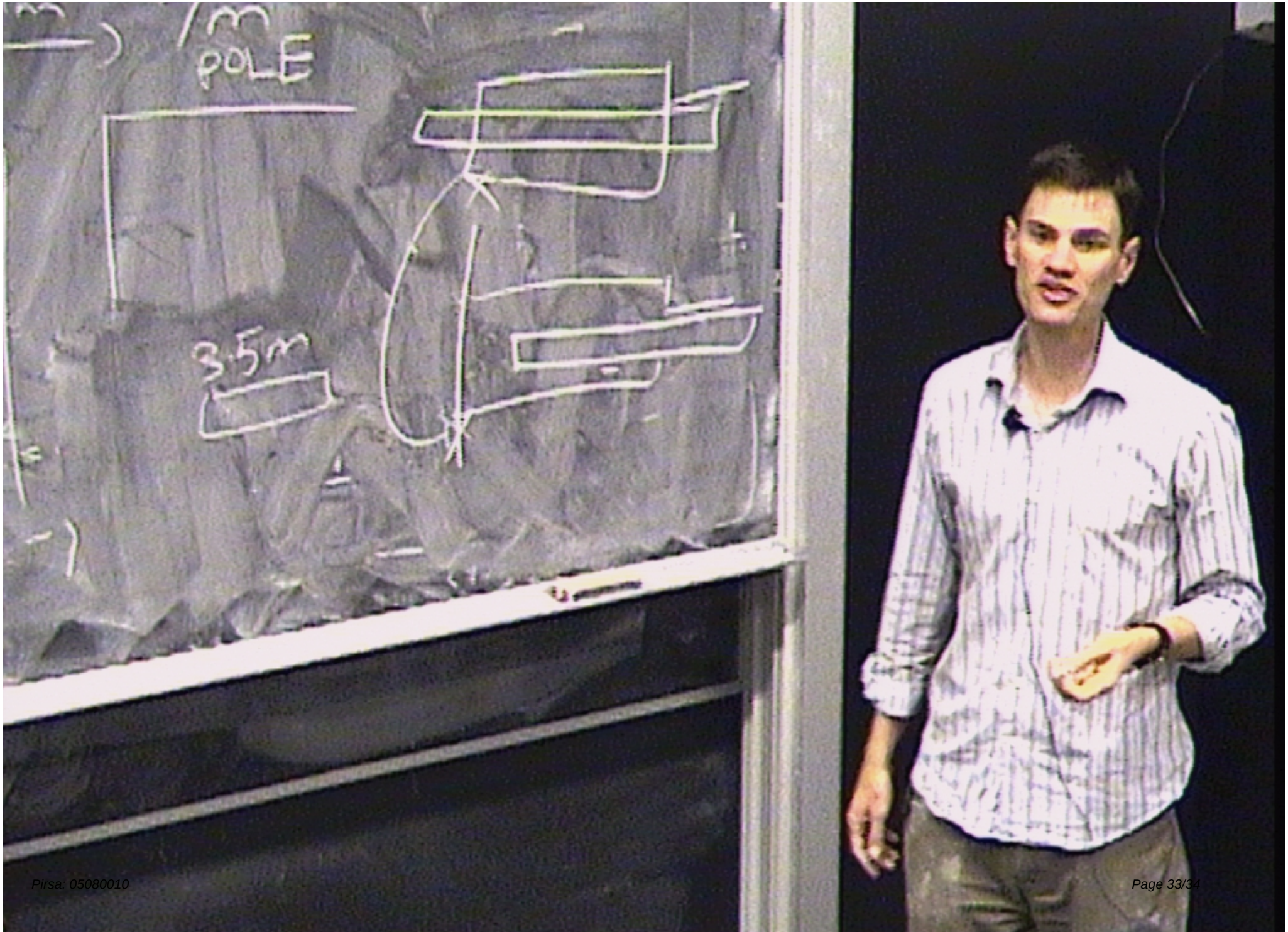

7m
POLE
3.5m

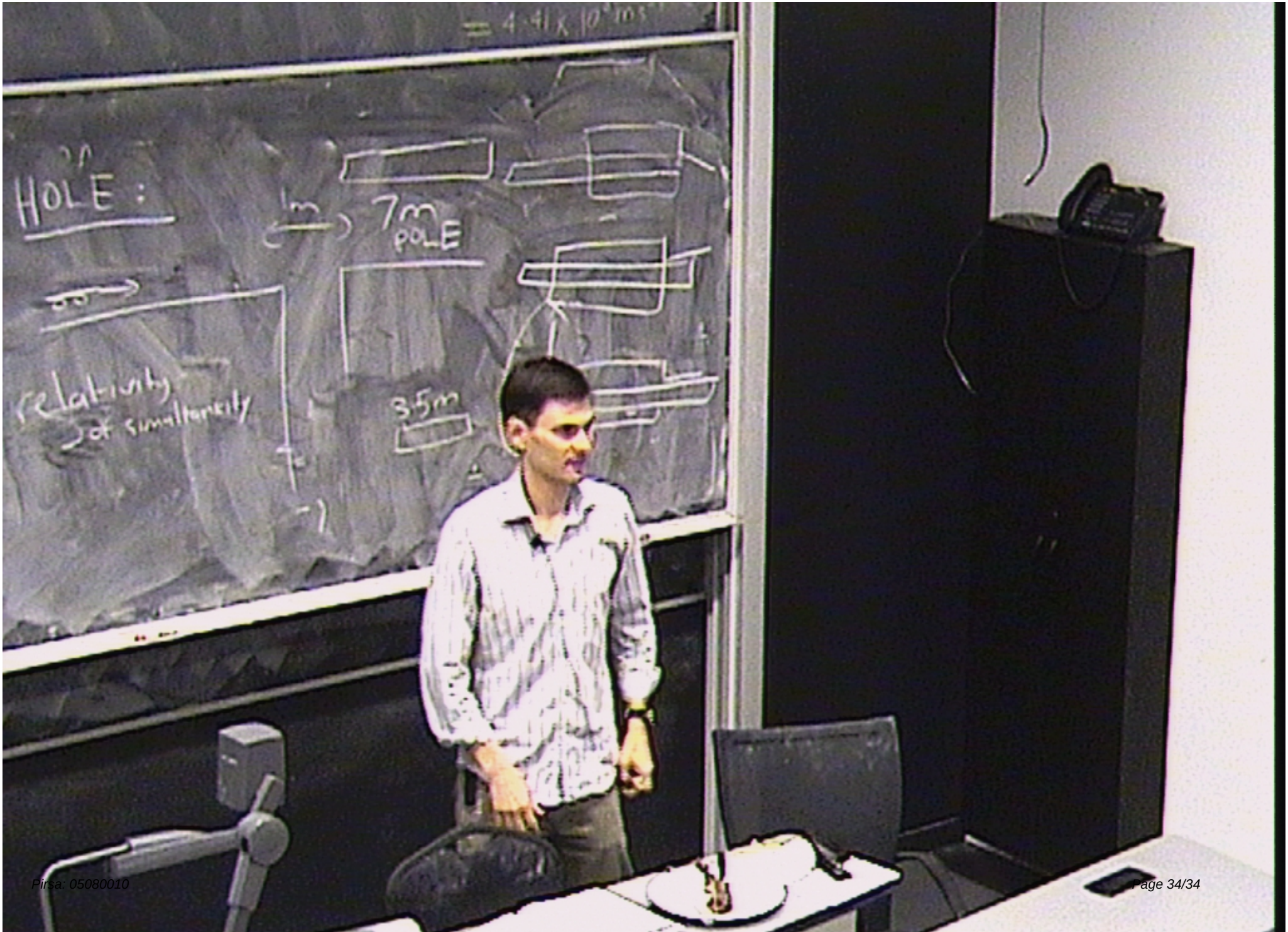

1m
7m
POLE
3.5m
simultaneity


HOLE :
1m
7m
POLE
relativity
of simultaneity
3.5m


50cm
1m
SKATEBOARD:
HOLE


HOLE :
1m
7m
POLE
3.5m


POLE
3.5m


HOLE :
7m
POLE
3.5m
relativity
of simultaneity