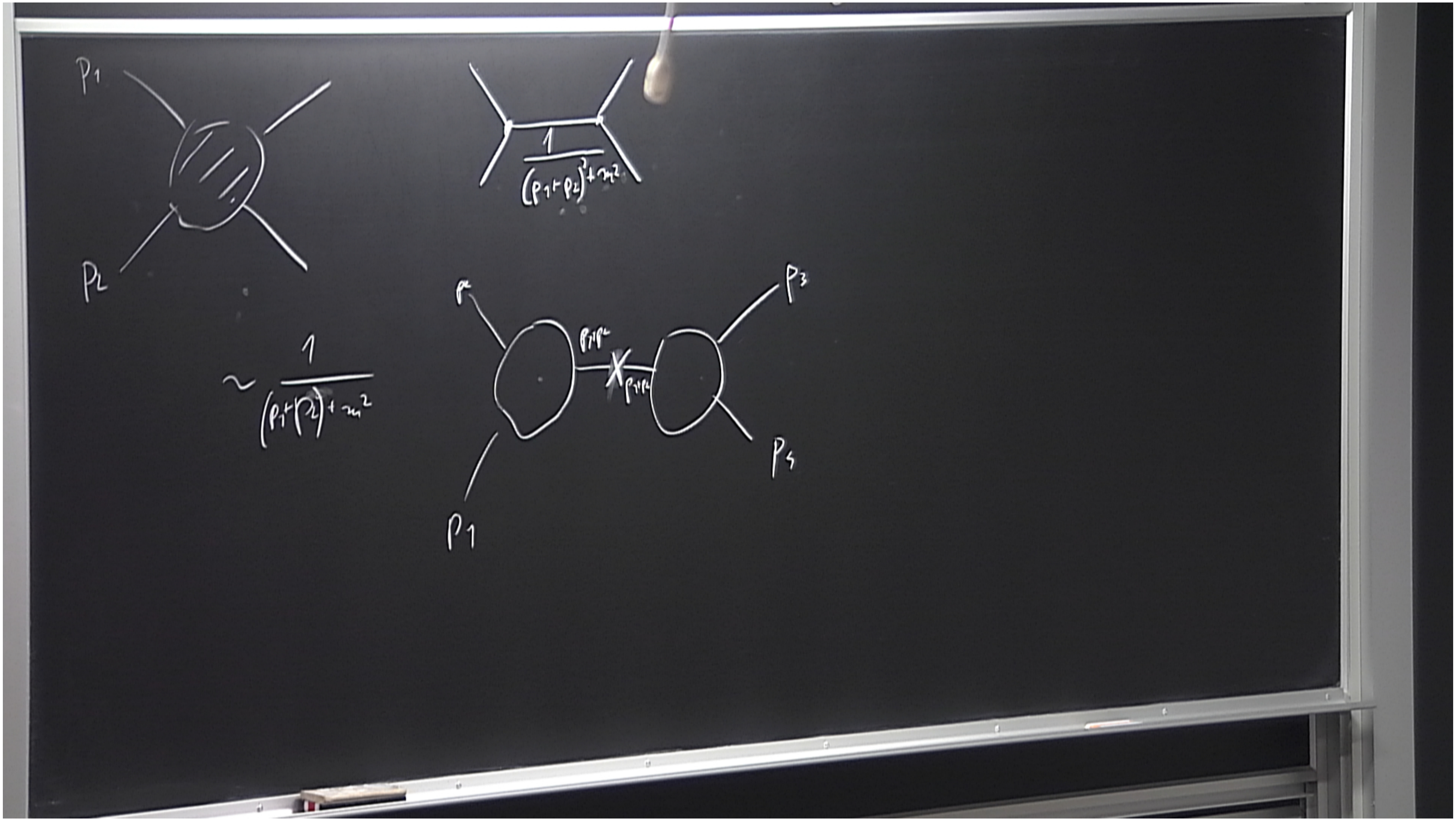
Title: String Theory Review-11

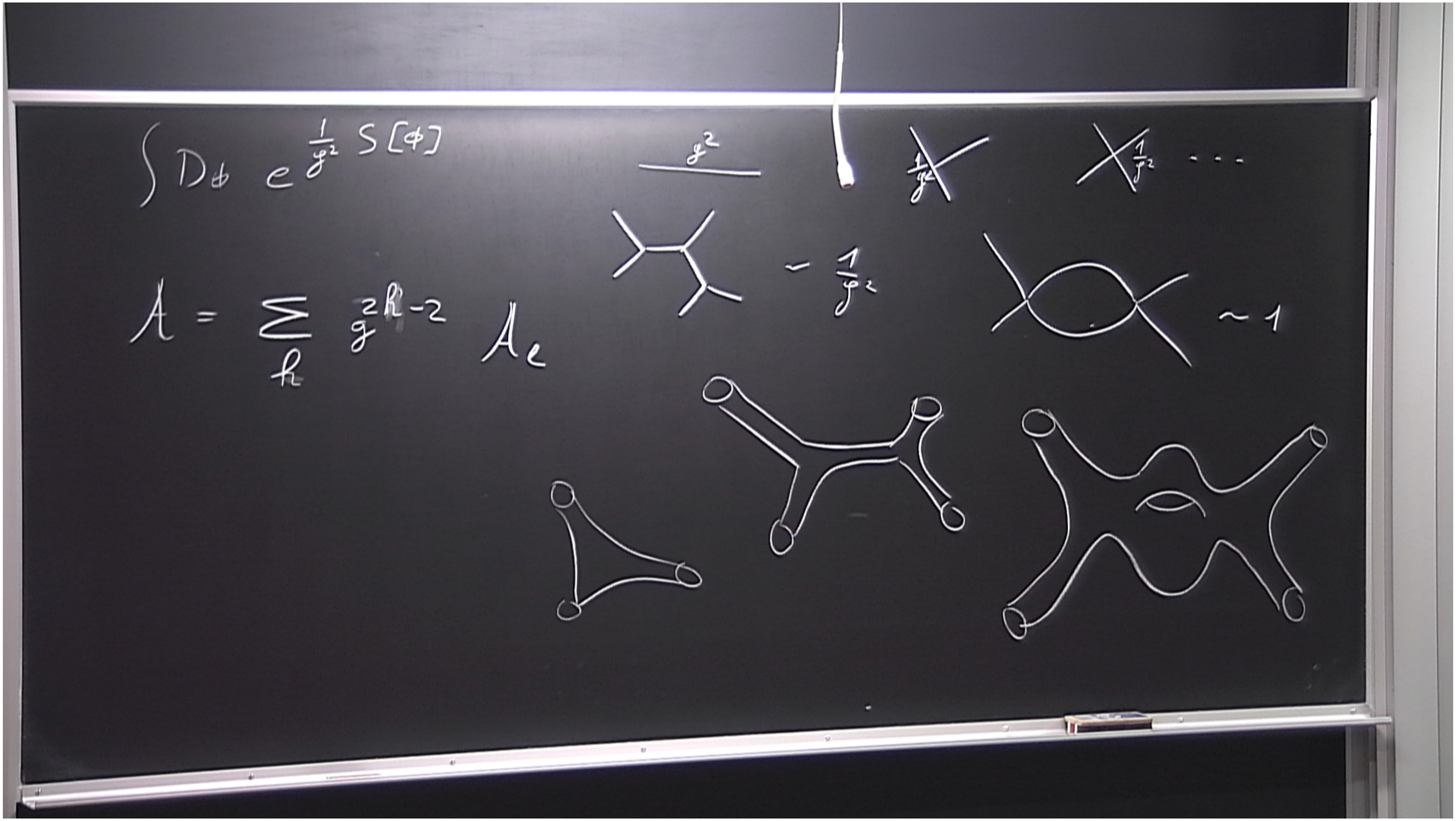
Date: Feb 09, 2015 10:15 AM

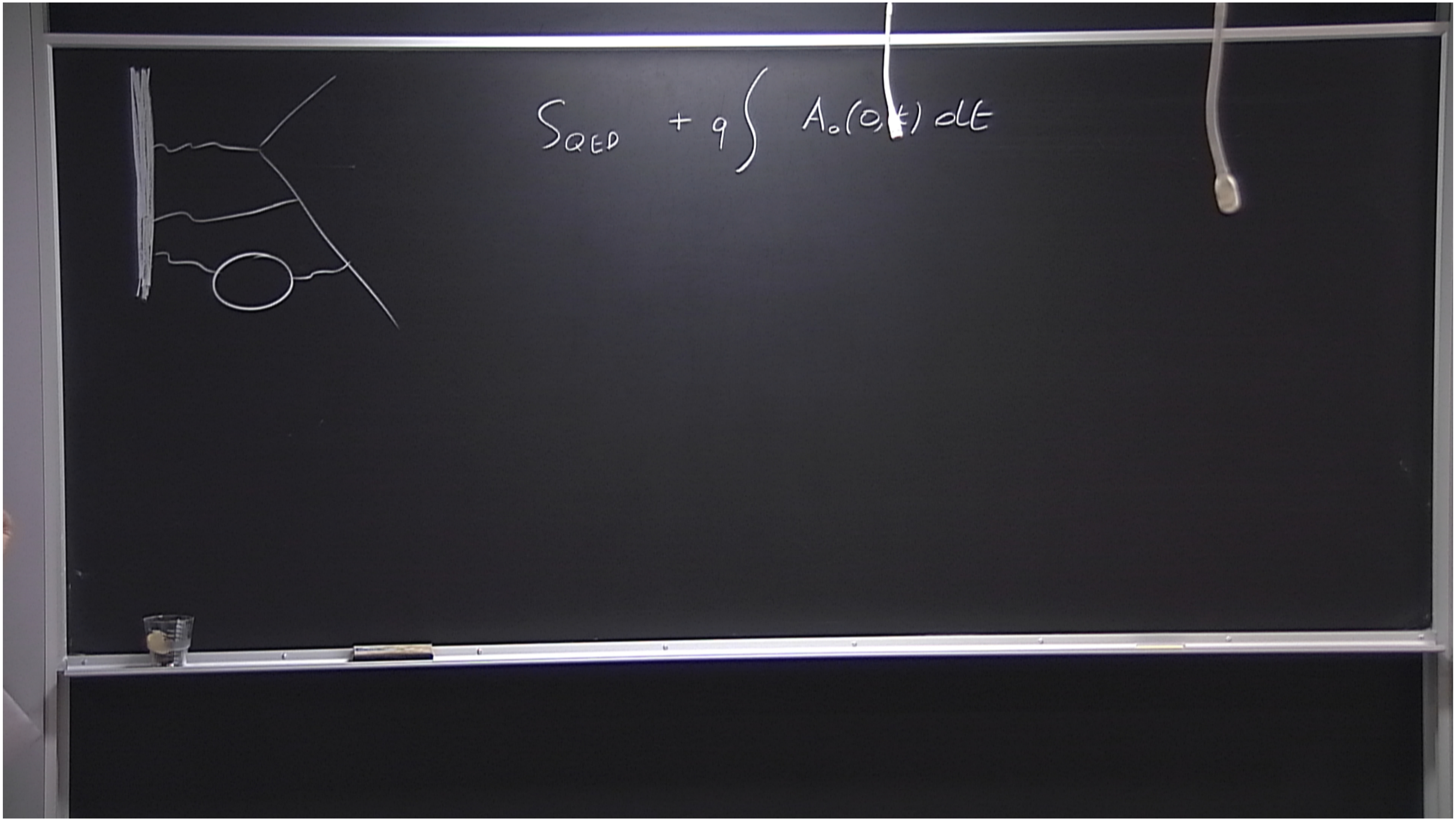
URL: http://pirsa.org/15020021

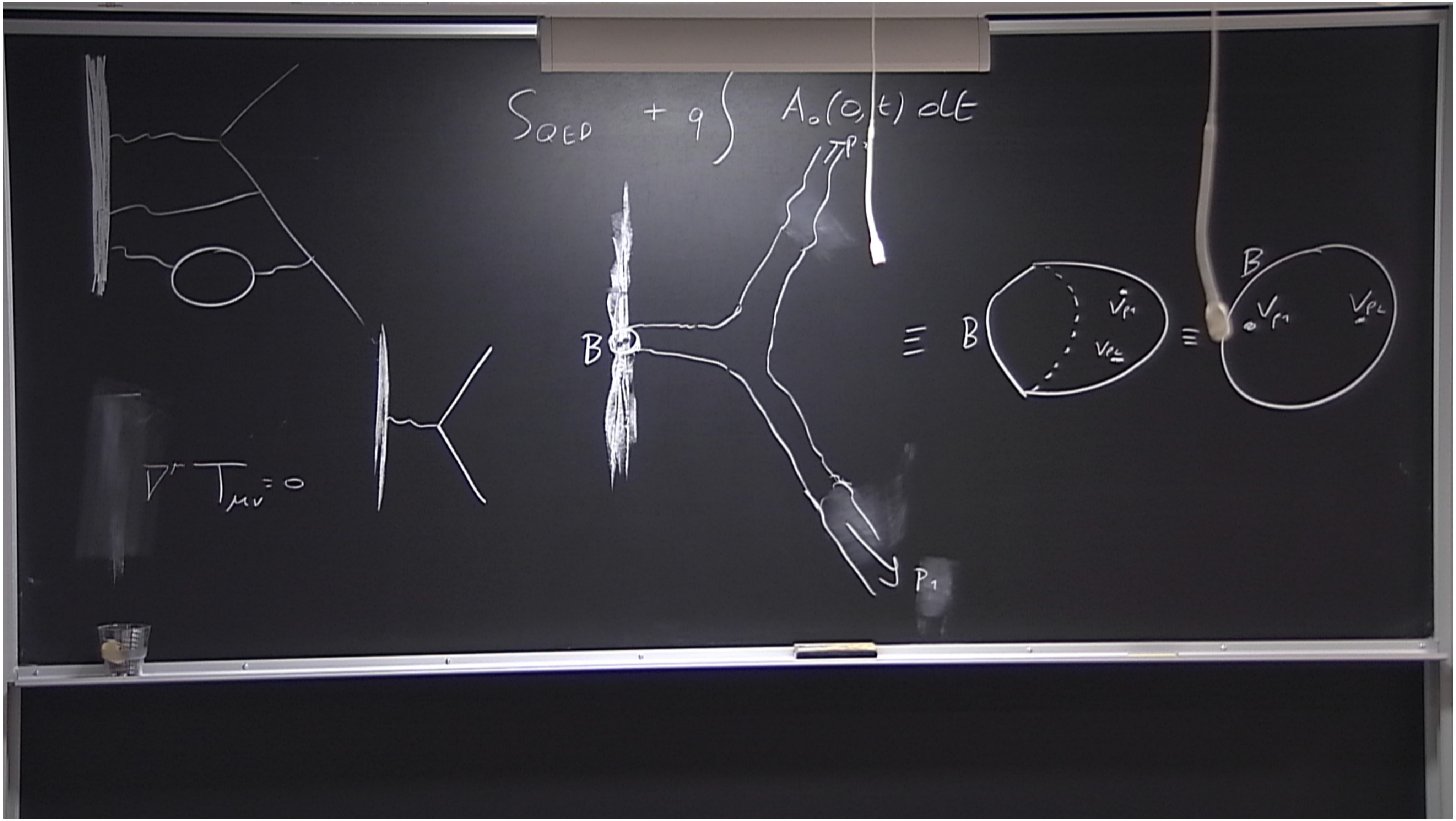
Abstract:



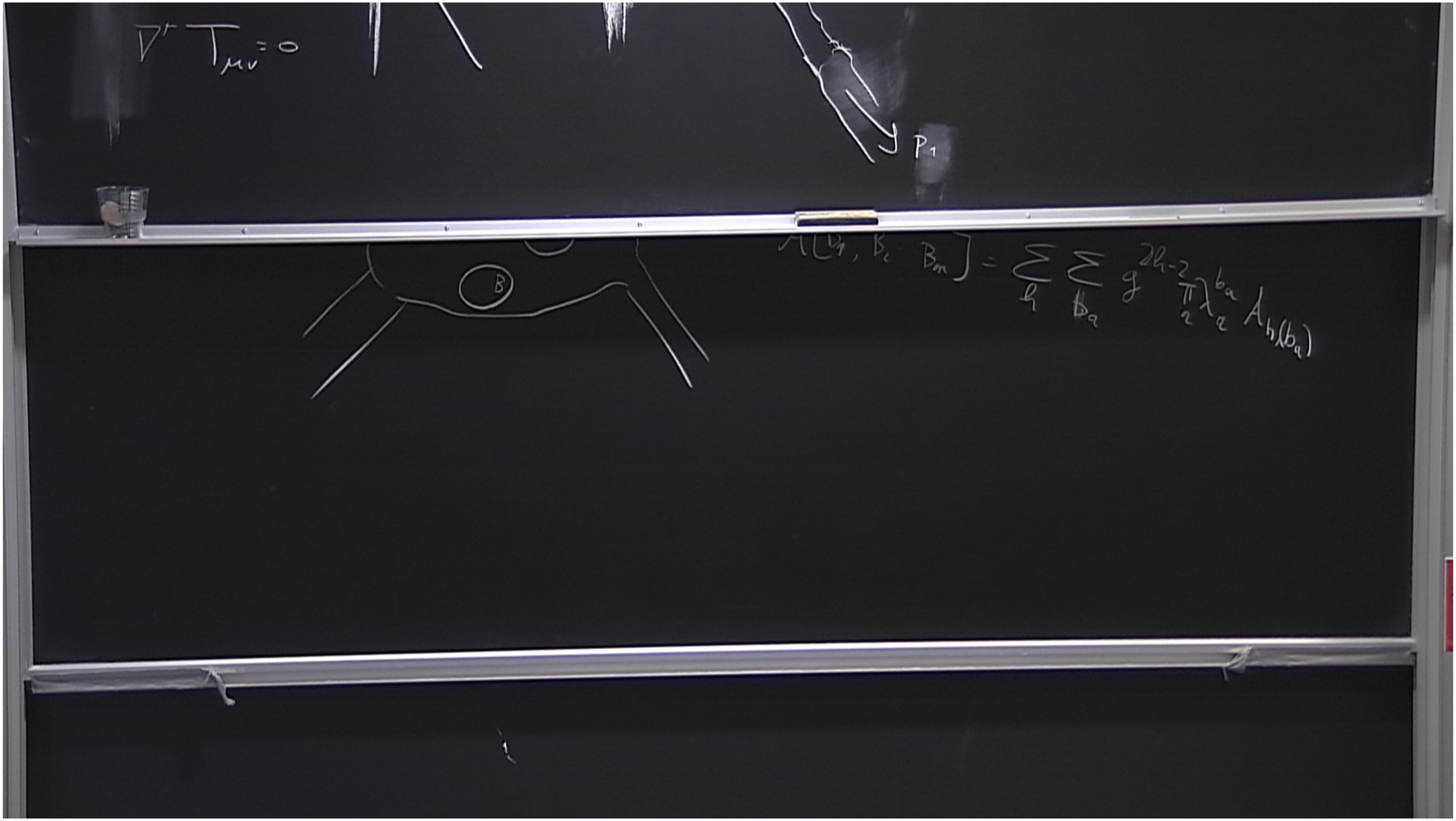
p_1
p_2
$\frac{1}{(p_1+p_2)^2+m^2}$
$\sim \frac{1}{(p_1+p_2)^2+m^2}$
p_3
p_4
p_1

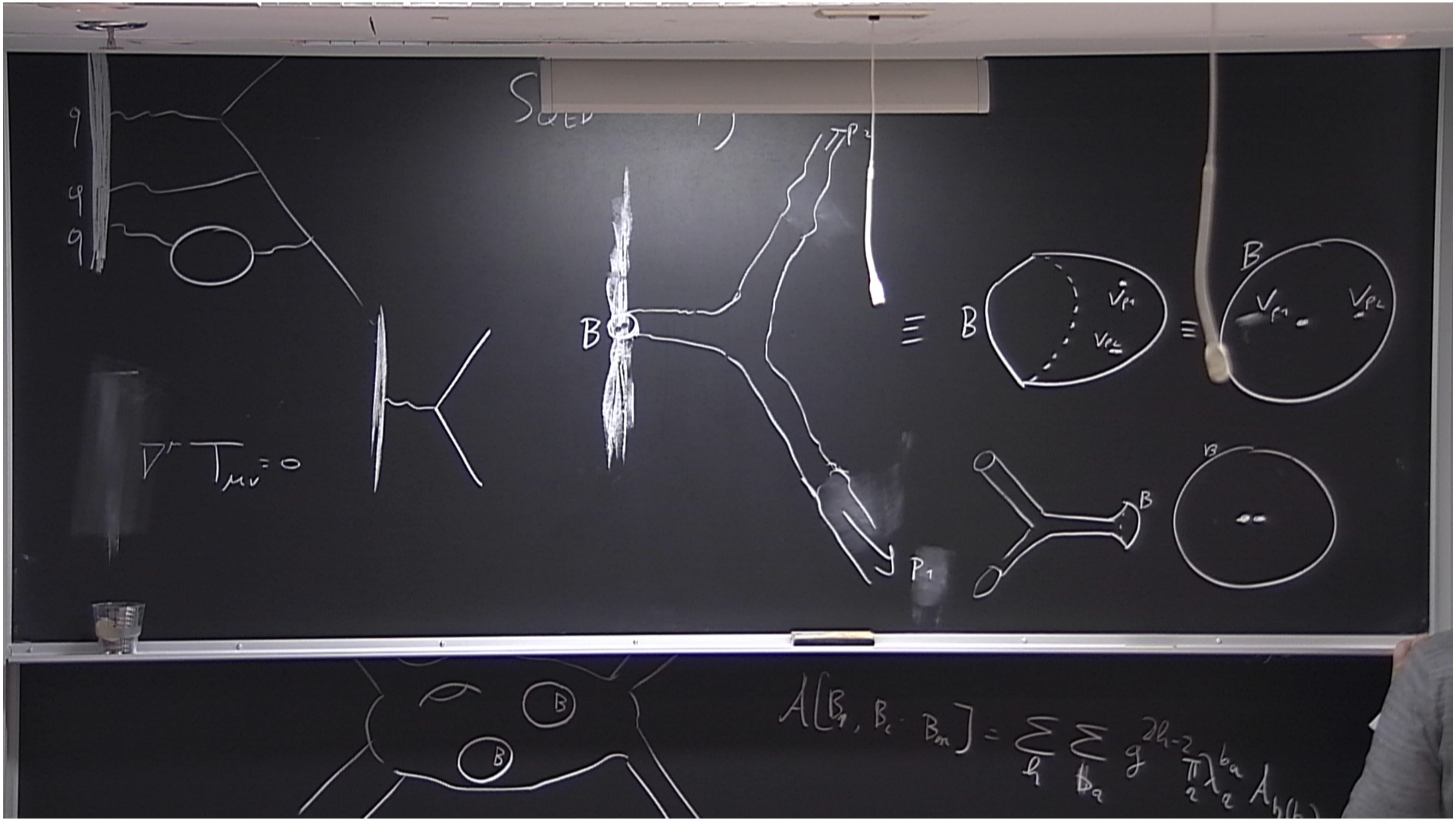

$\int D\phi \, e^{\frac{1}{g^2} S[\phi]}$
$A = \sum_h g^{2h-2} A_h$
g^2
$\frac{1}{g^2}$
$\frac{1}{g^2}$
. . .
$\sim \frac{1}{g^2}$
~ 1


$S_{QED} + q \int A_0(0,t)\, dt$

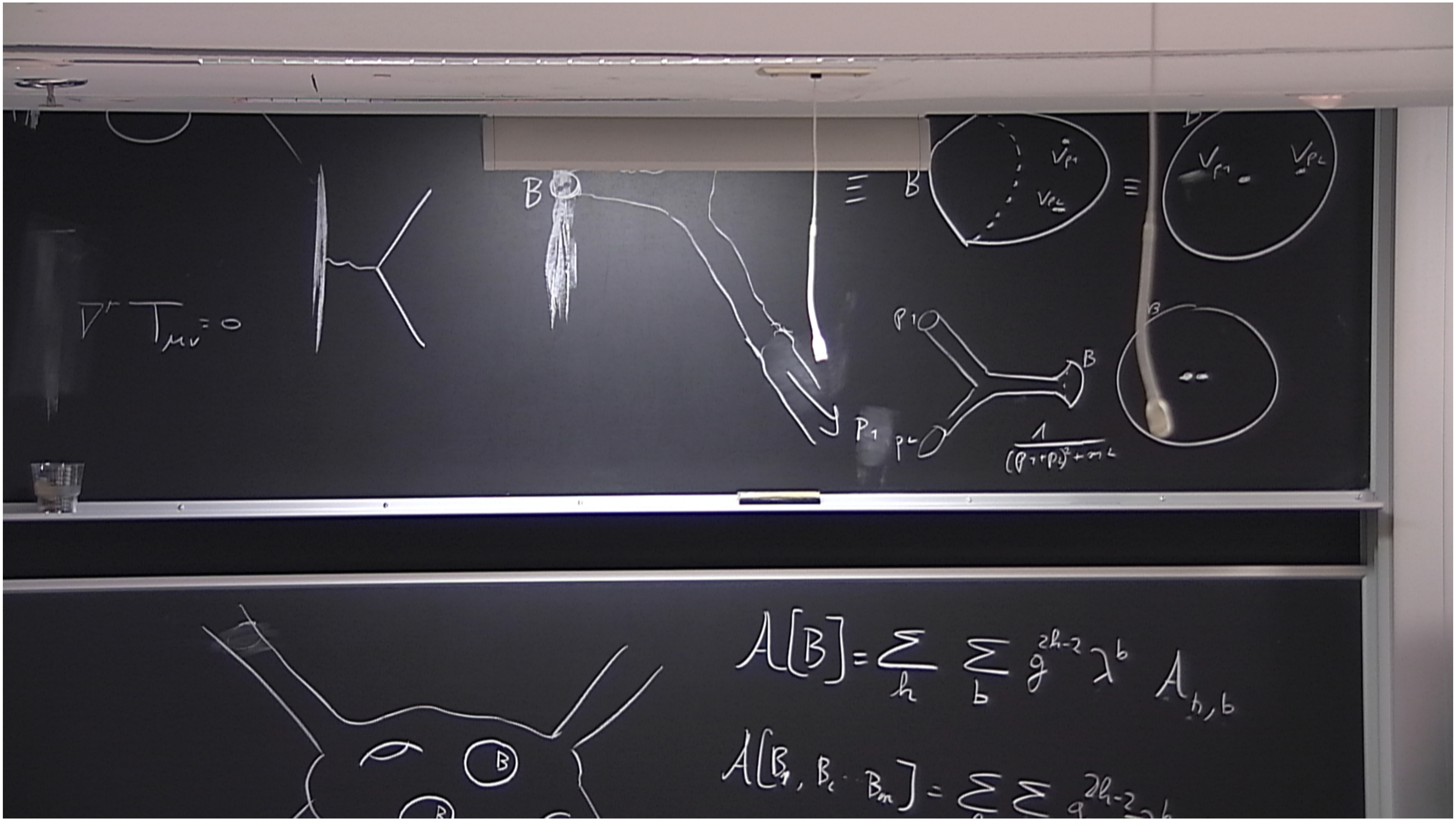


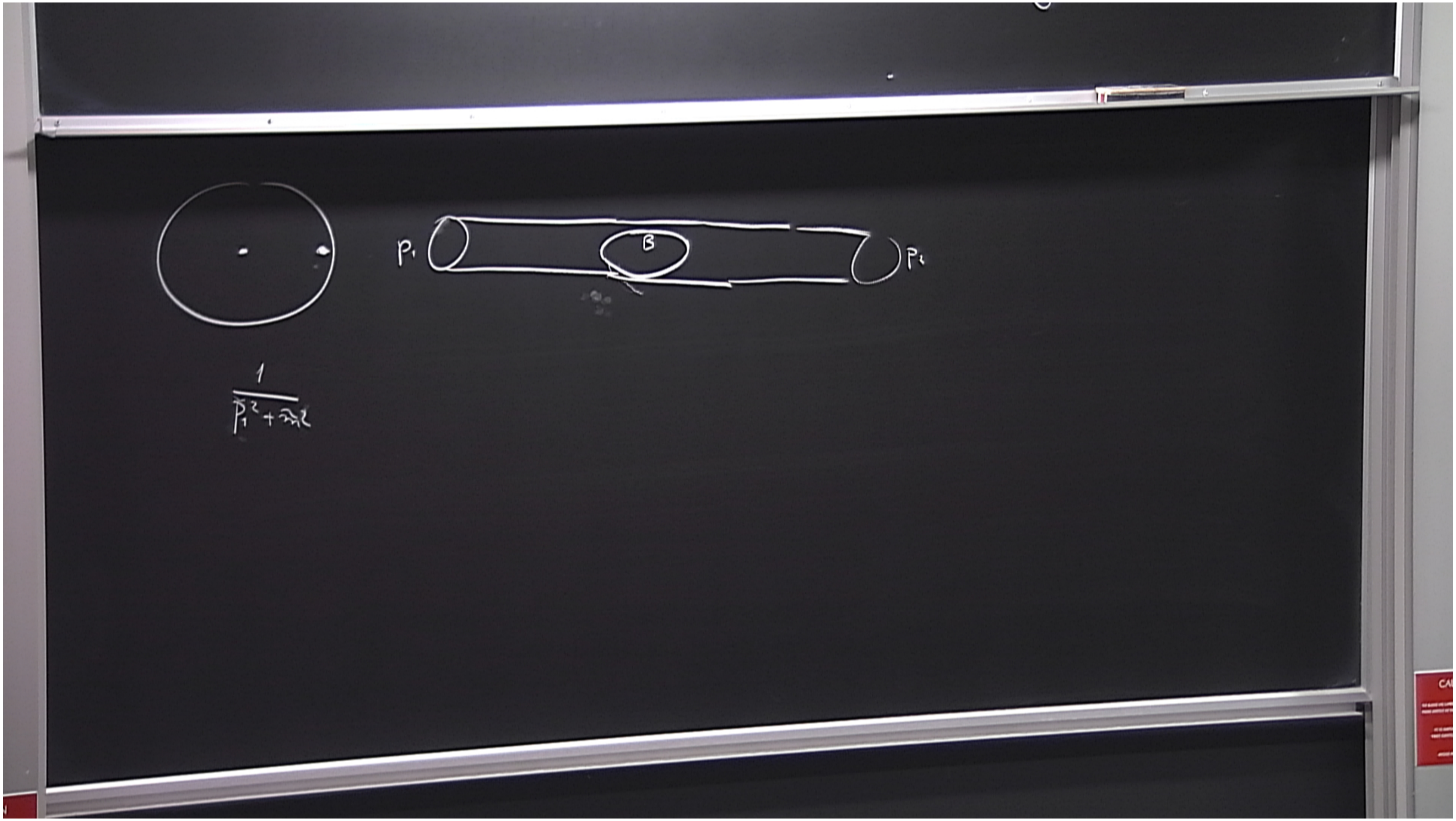
S_QED + q ∫ A₀(0,t) dt
B
P₁
≡ B
≡
B

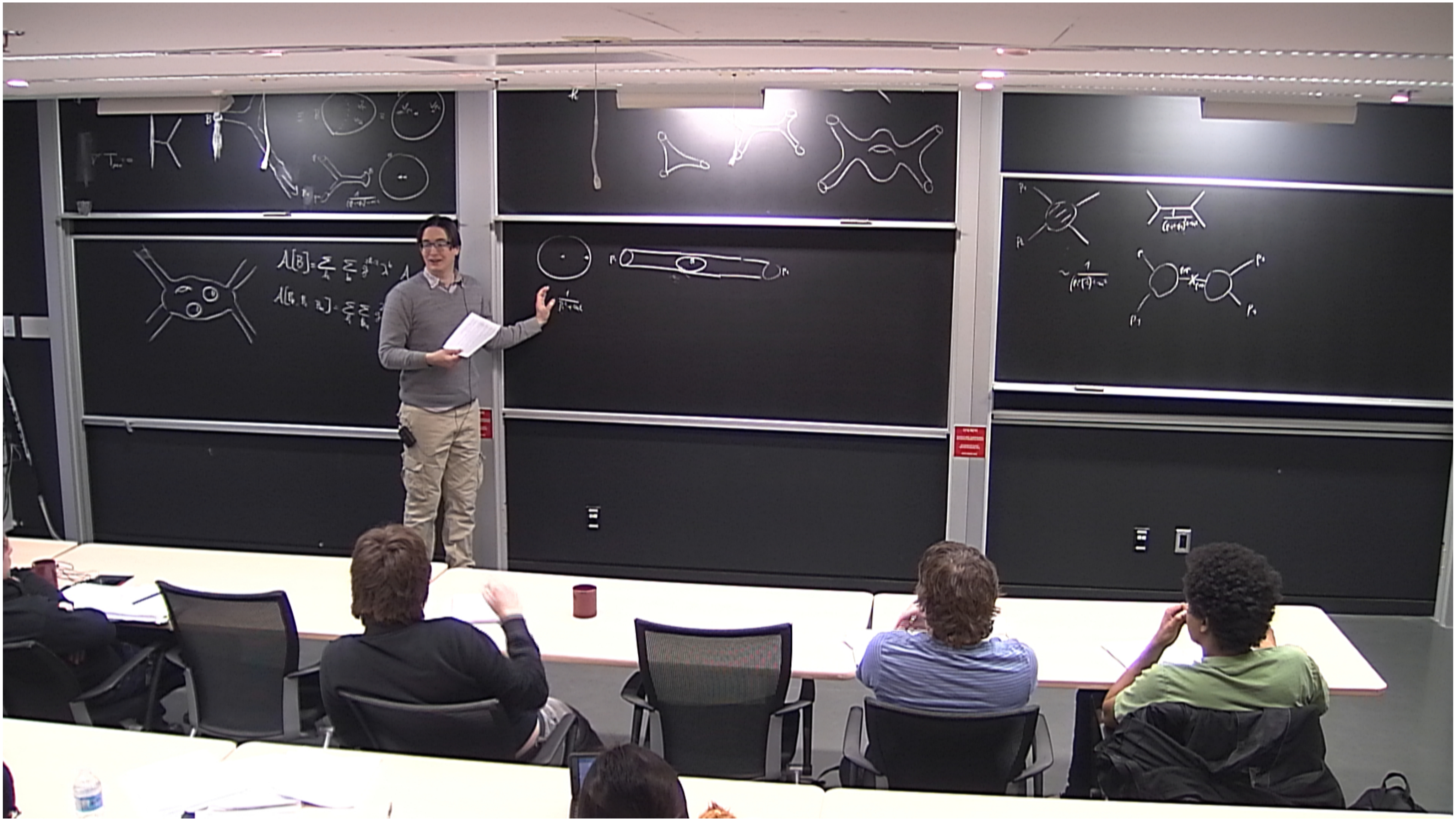

∇^μ T_μν = 0
P_1
B
A[B_1, B_2 ... B_n] = Σ_h Σ_{b_a} g^{2h-2} Π_a λ_a^{b_a} A_h(b_a)

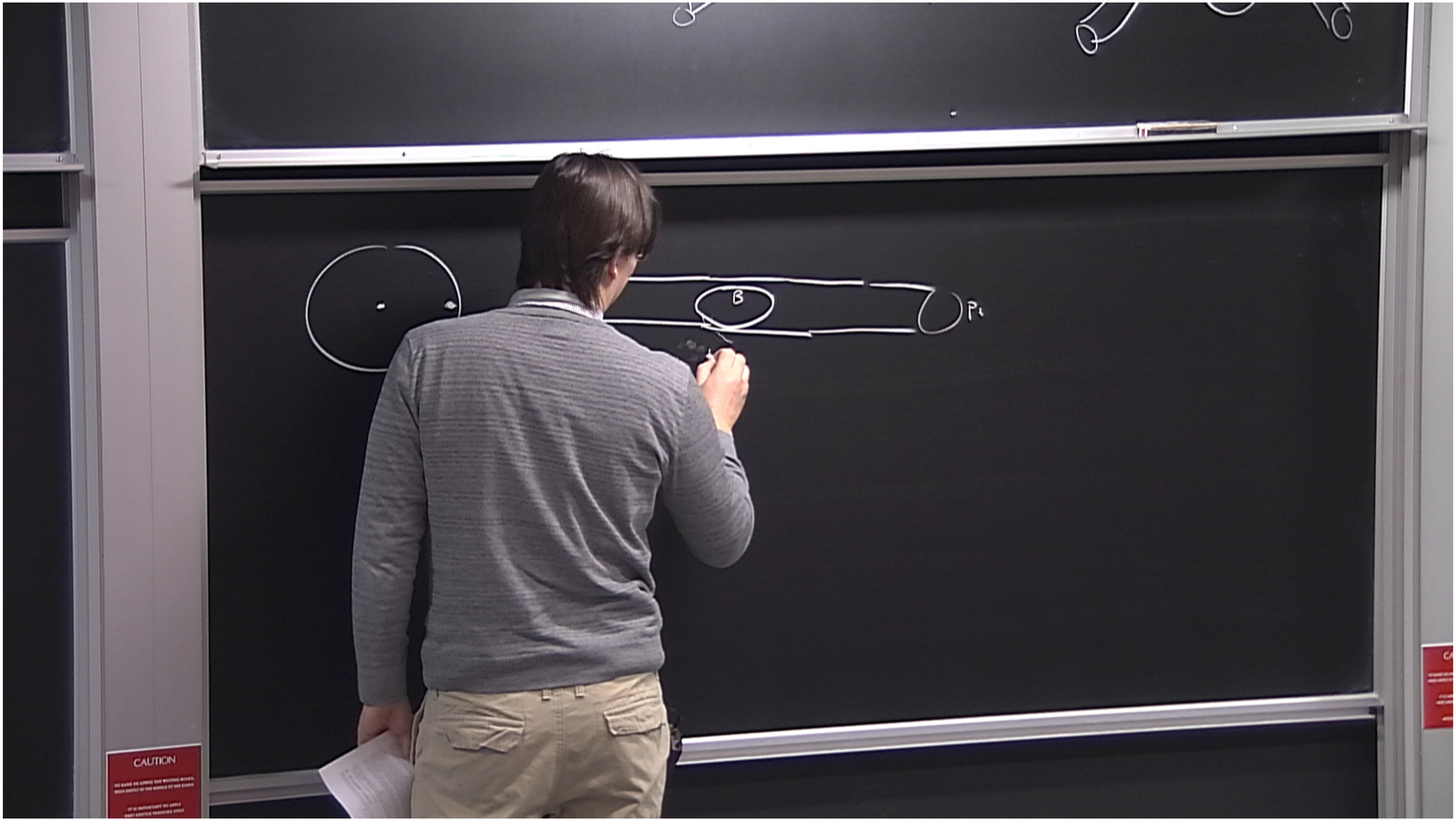


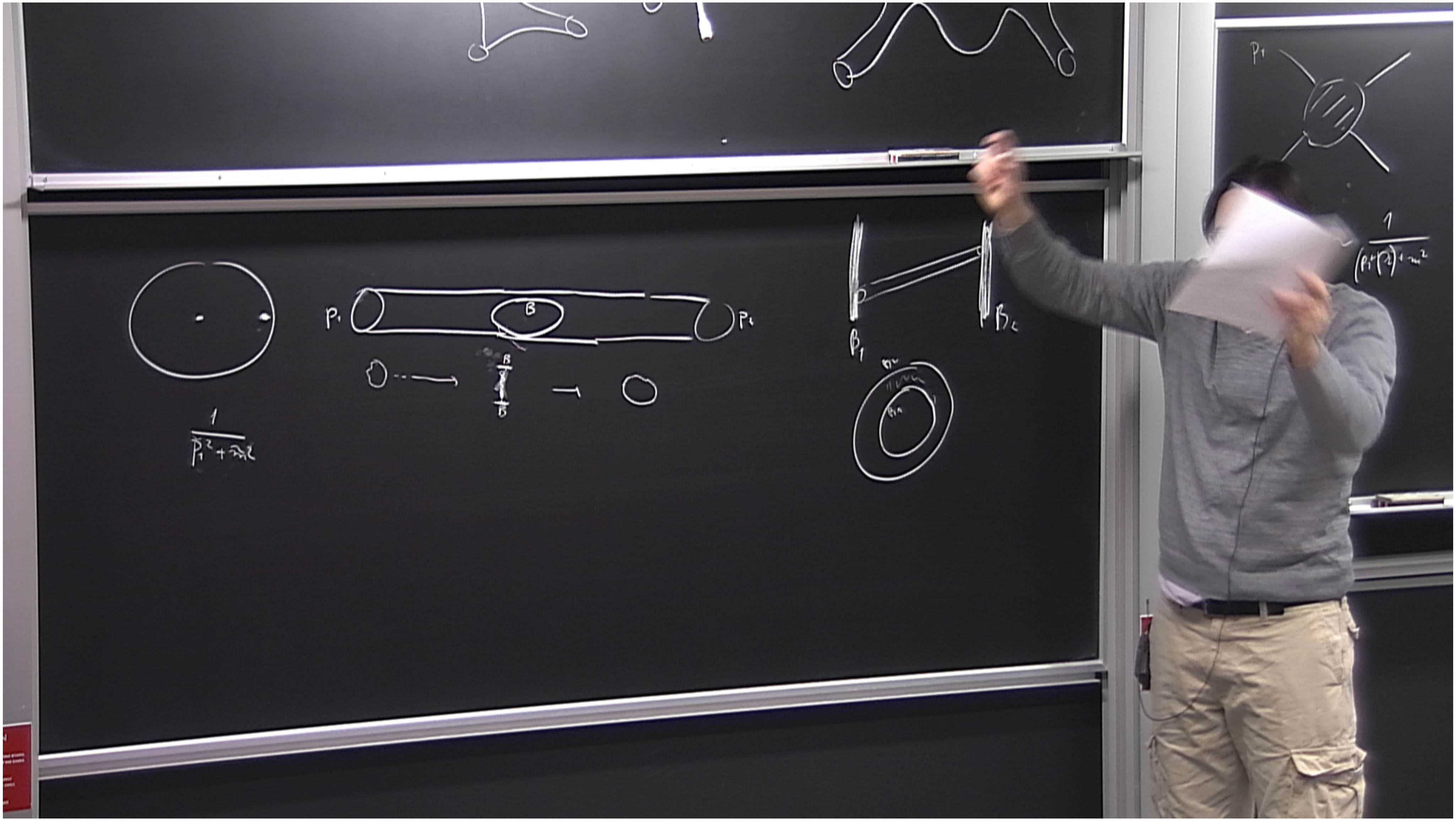
B
P1
P2
∇^μ T_μν = 0

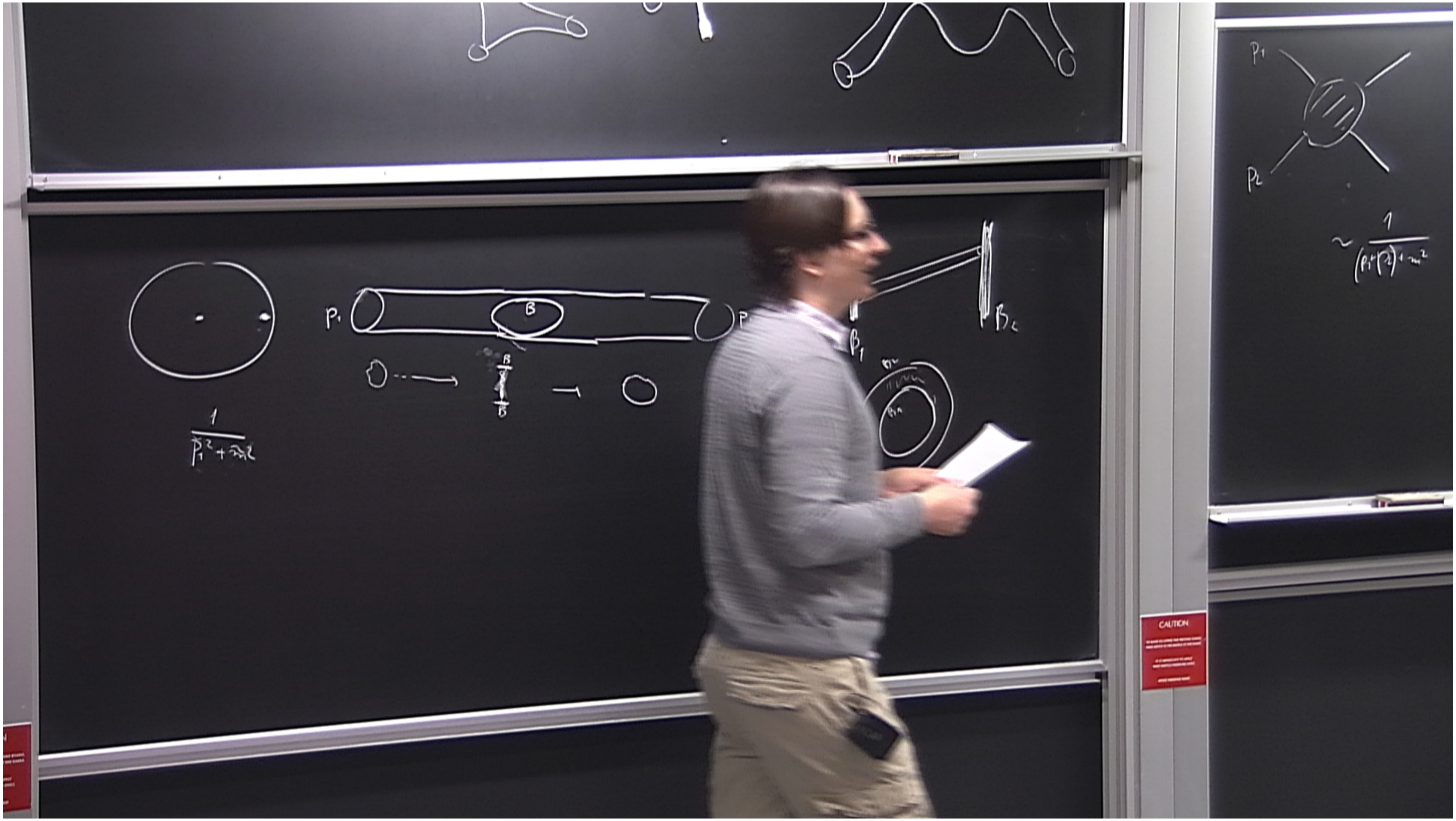

$\nabla^\mu T_{\mu\nu} = 0$
B
V_{p_1}
V_{p_2}
p_1
p_2
$\frac{1}{(p_1+p_2)^2+m^2}$
$A[B] = \sum_h \sum_b g^{2h-2} \lambda^b A_{h,b}$
$A[B_1, B_2 \cdots B_m] = \sum \sum g^{2h-2}$

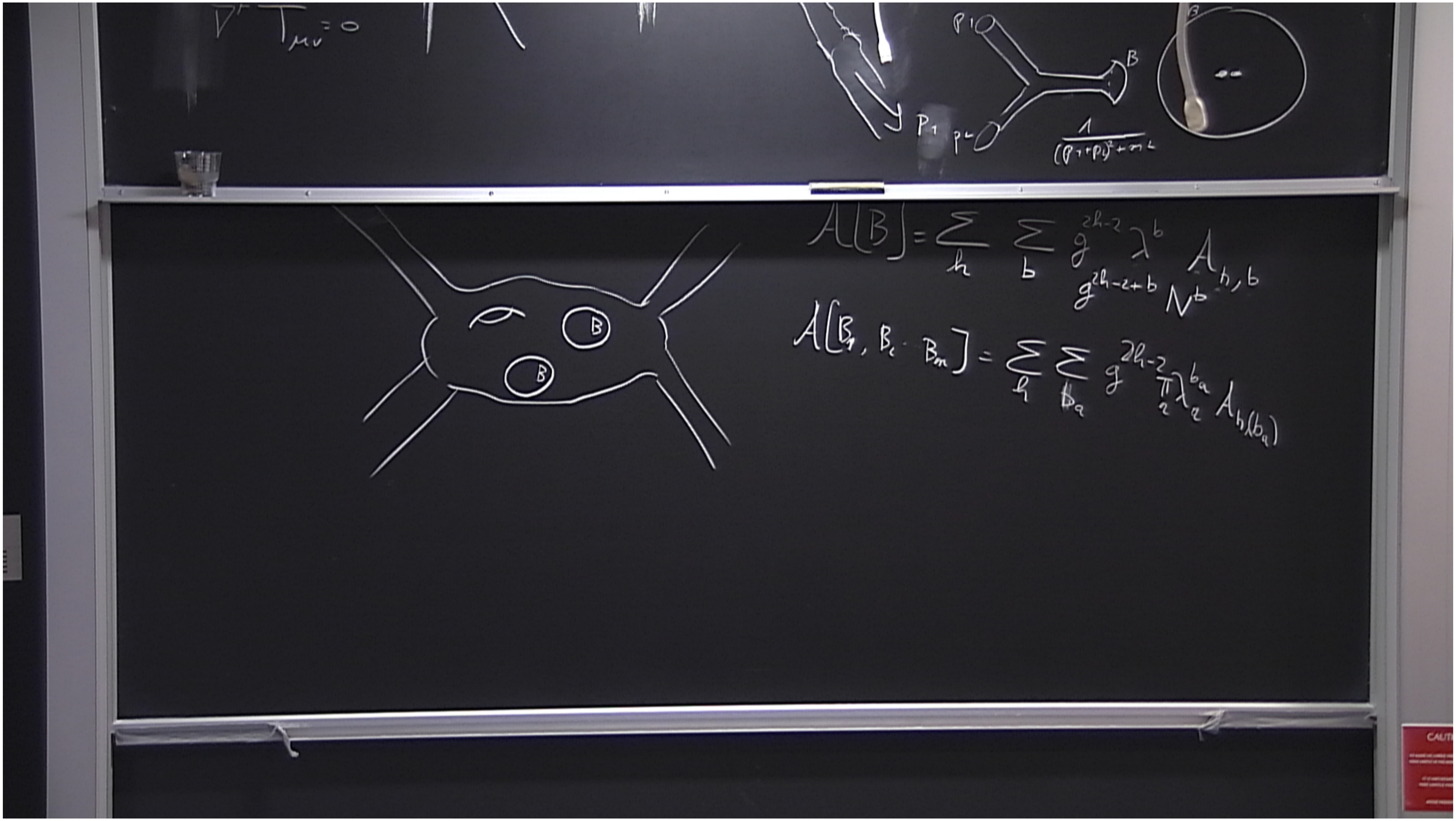

P1
B
P2
1 / (p1² + m²)

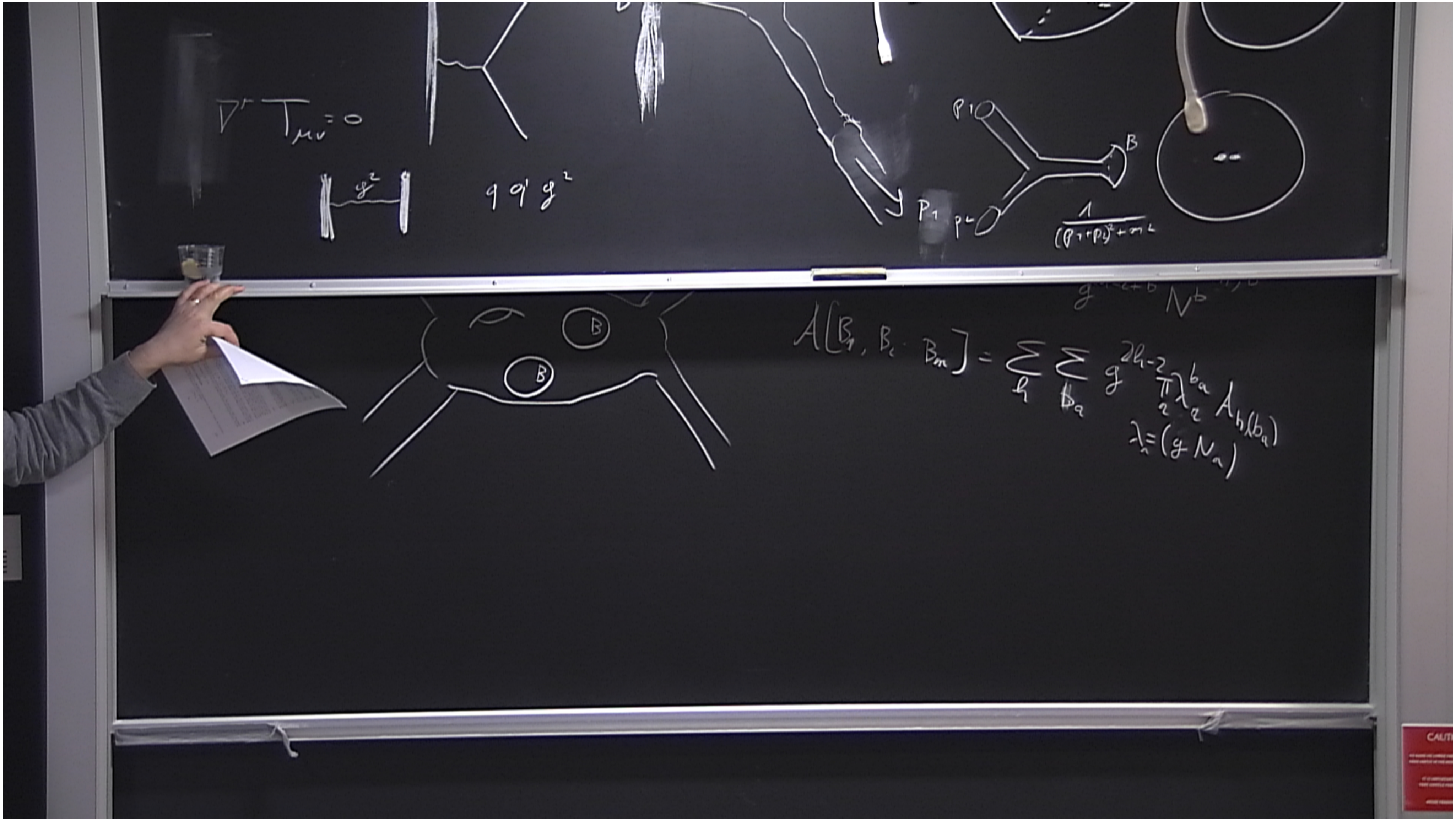



B
P₁

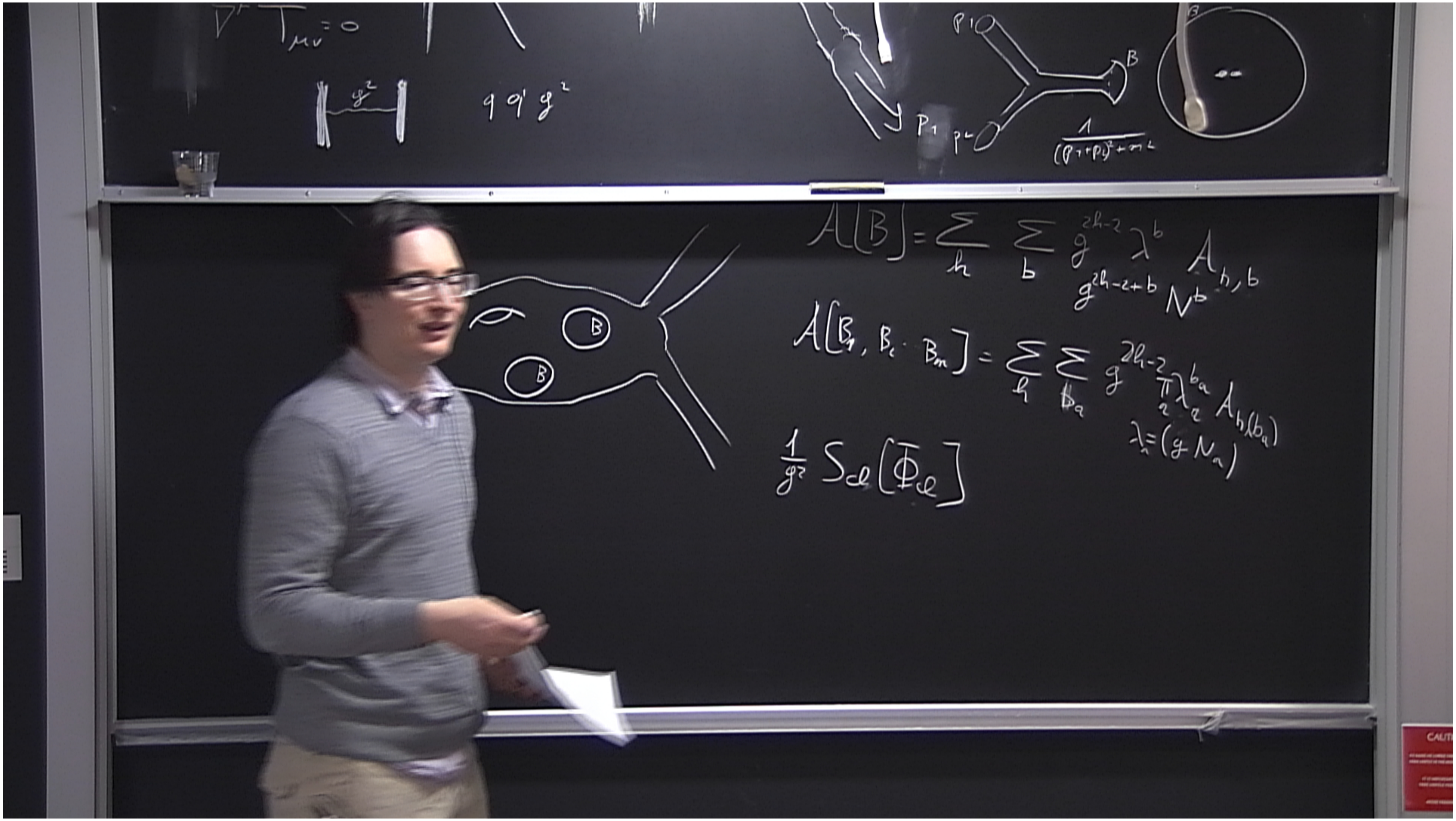


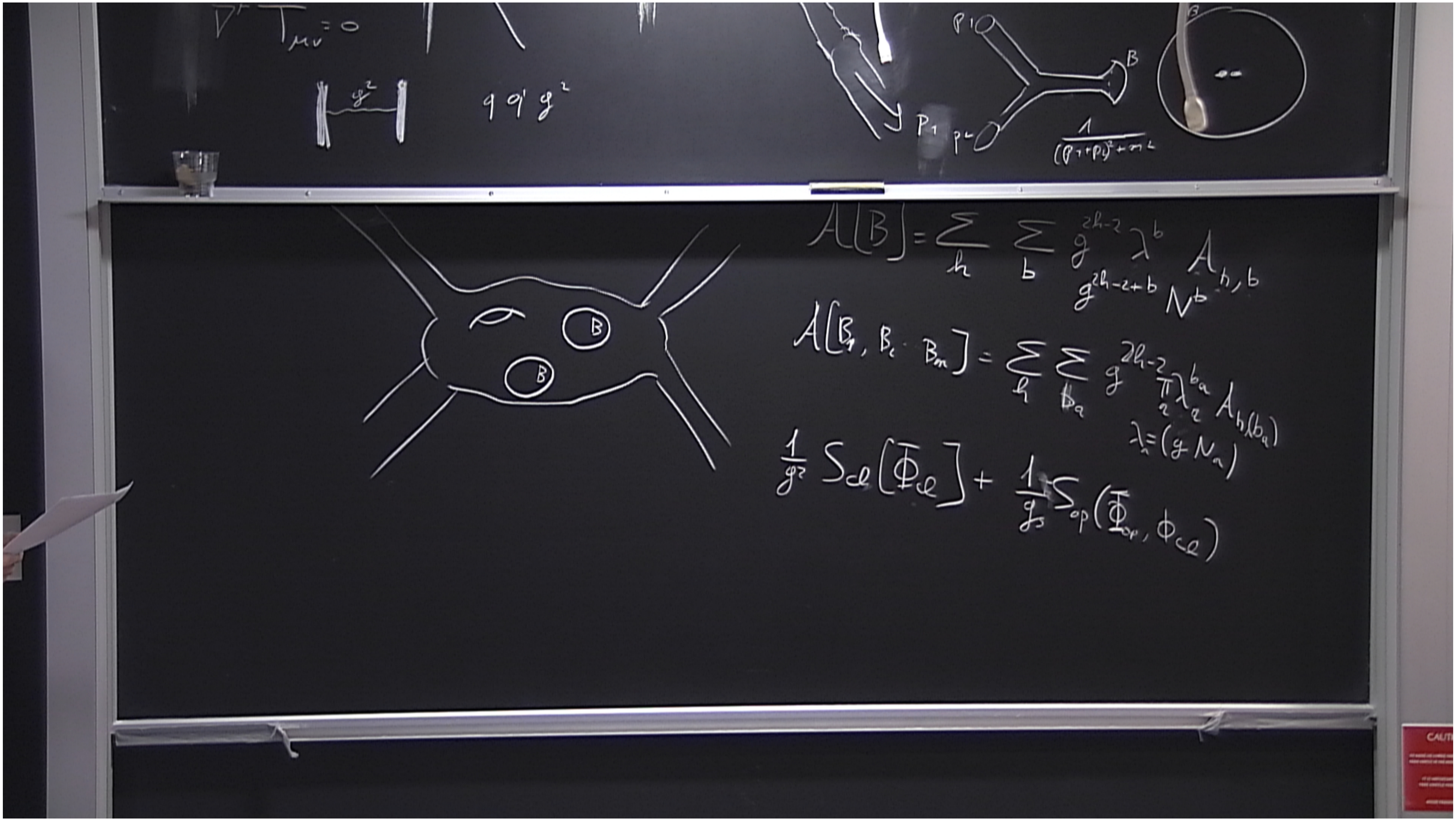

P1
P2
B
B1
B2
P1
P2


$\nabla^\mu T_{\mu\nu} = 0$
p_1
p_2
B
$\frac{1}{(p_1+p_2)^2+m^2}$
B
B
$A[B] = \sum_h \sum_b g^{2h-2} \lambda^b A_{h,b}$
$g^{2h-2+b} N^b$
$A[B_1, B_2 \cdots B_m] = \sum_h \sum_{b_a} g^{2h-2} \prod_a \lambda_a^{b_a} A_{h,(b_a)}$

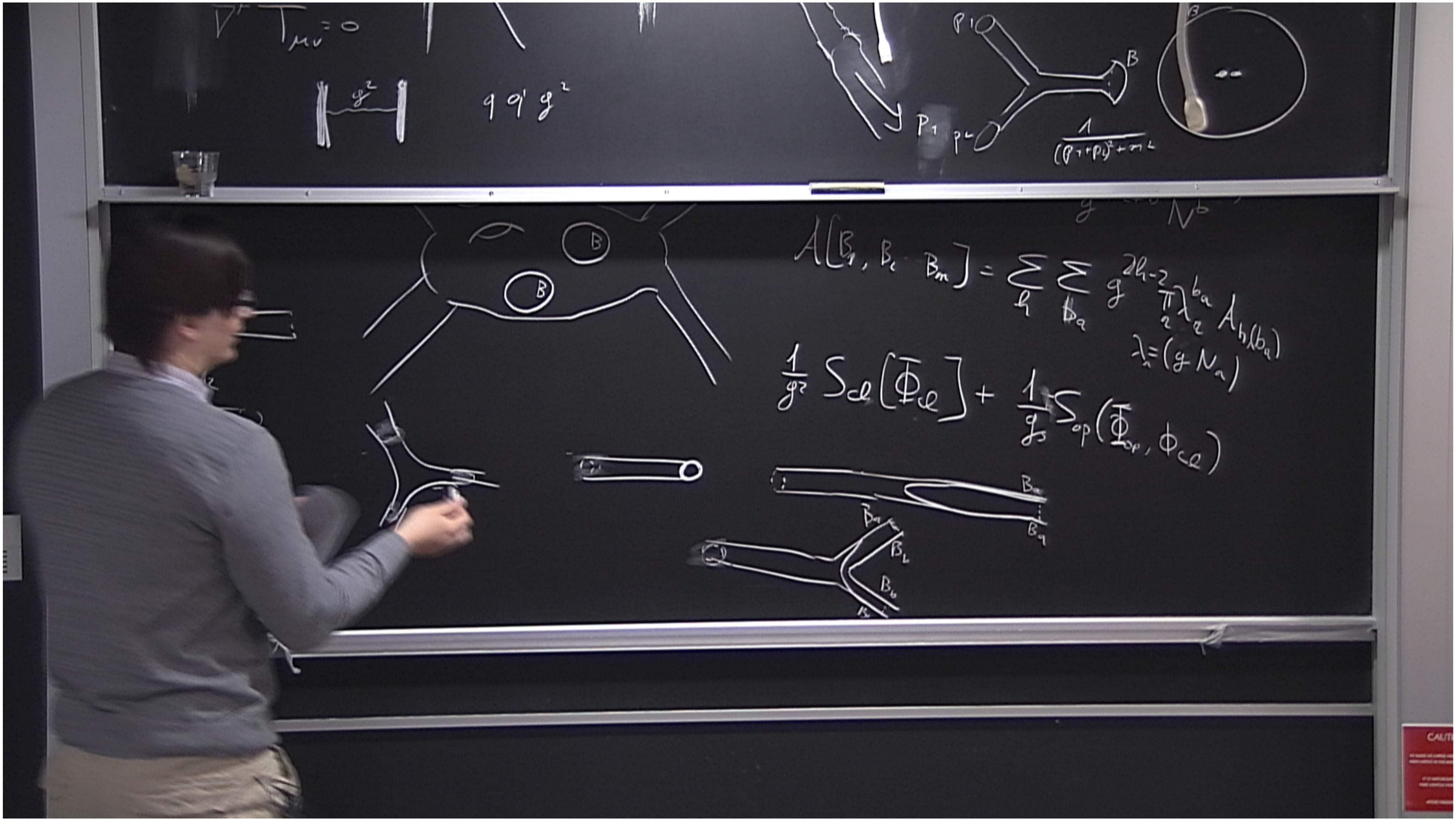


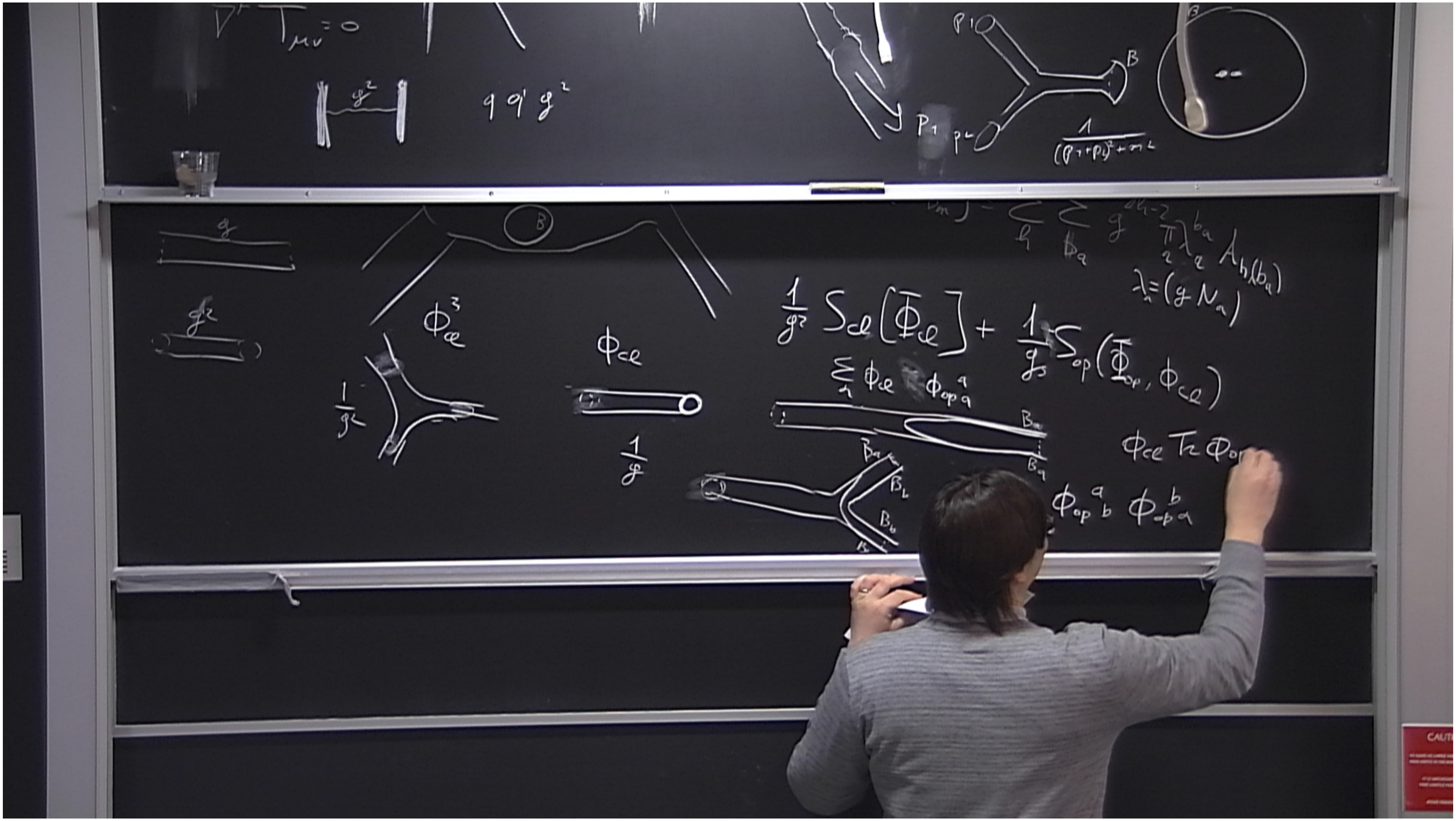
∇^μ T_μν = 0
g²
q q' g²
P1
P2
B
1/((p1+p2)² + m²)
A[B1, B2 ... Bn] = Σ_h Σ_ba g^(2h−2) Π λ_a^ba A_h(b_a)
λ_a = (g N_a)

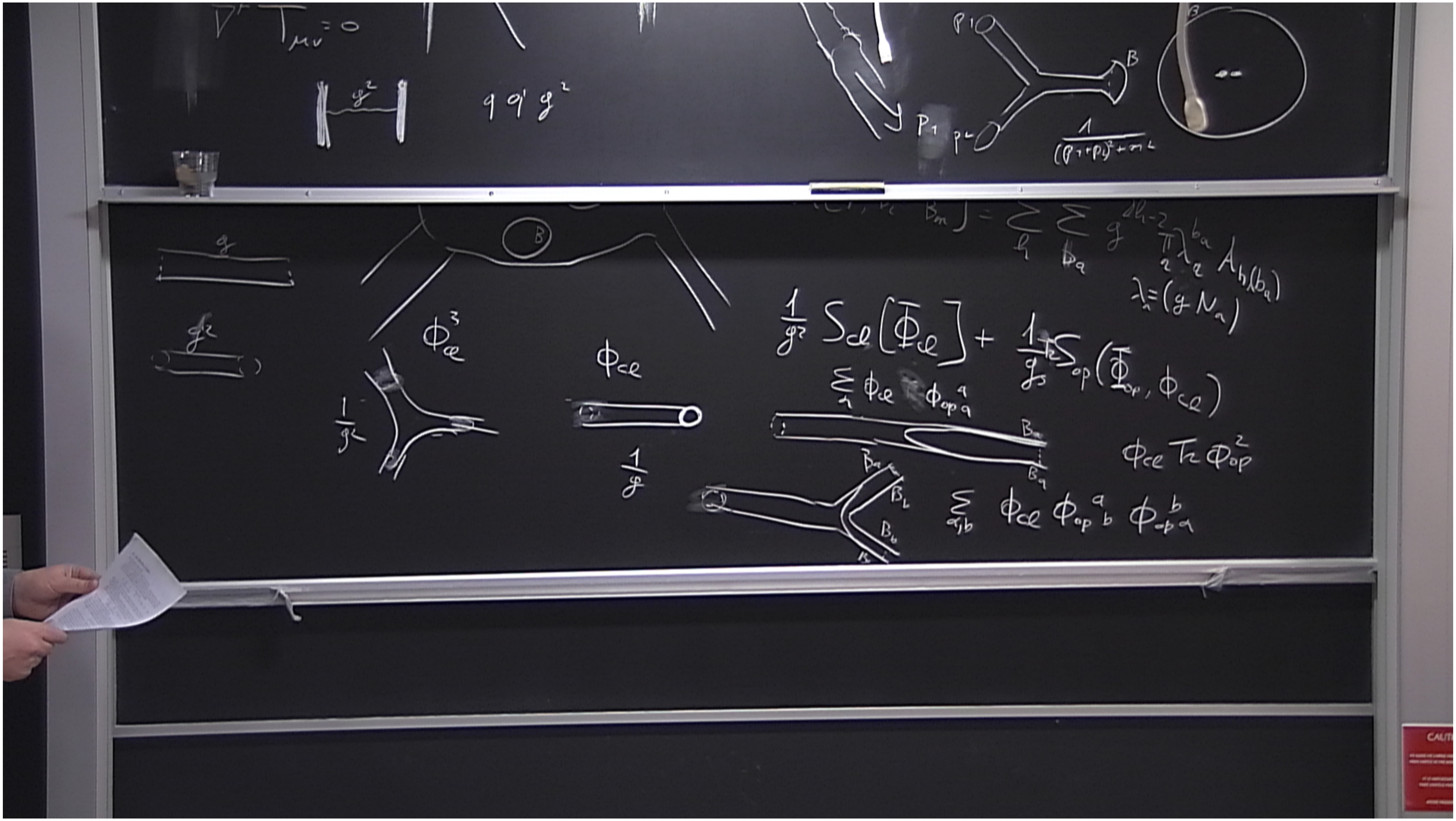

A[B] = Σ_h Σ_b g^{2h-2} λ^b A_{h,b}
g^{2h-2+b} N^b
A[B_1, B_2 · B_n] = Σ_h Σ_{b_a} g^{2h-2} Π_a λ_a^{b_a} A_{h,(b_a)}
λ_a = (g N_a)
1/g^2 S_cl[Φ_cl]
1/((p_1+p_2)^2 + m^2)

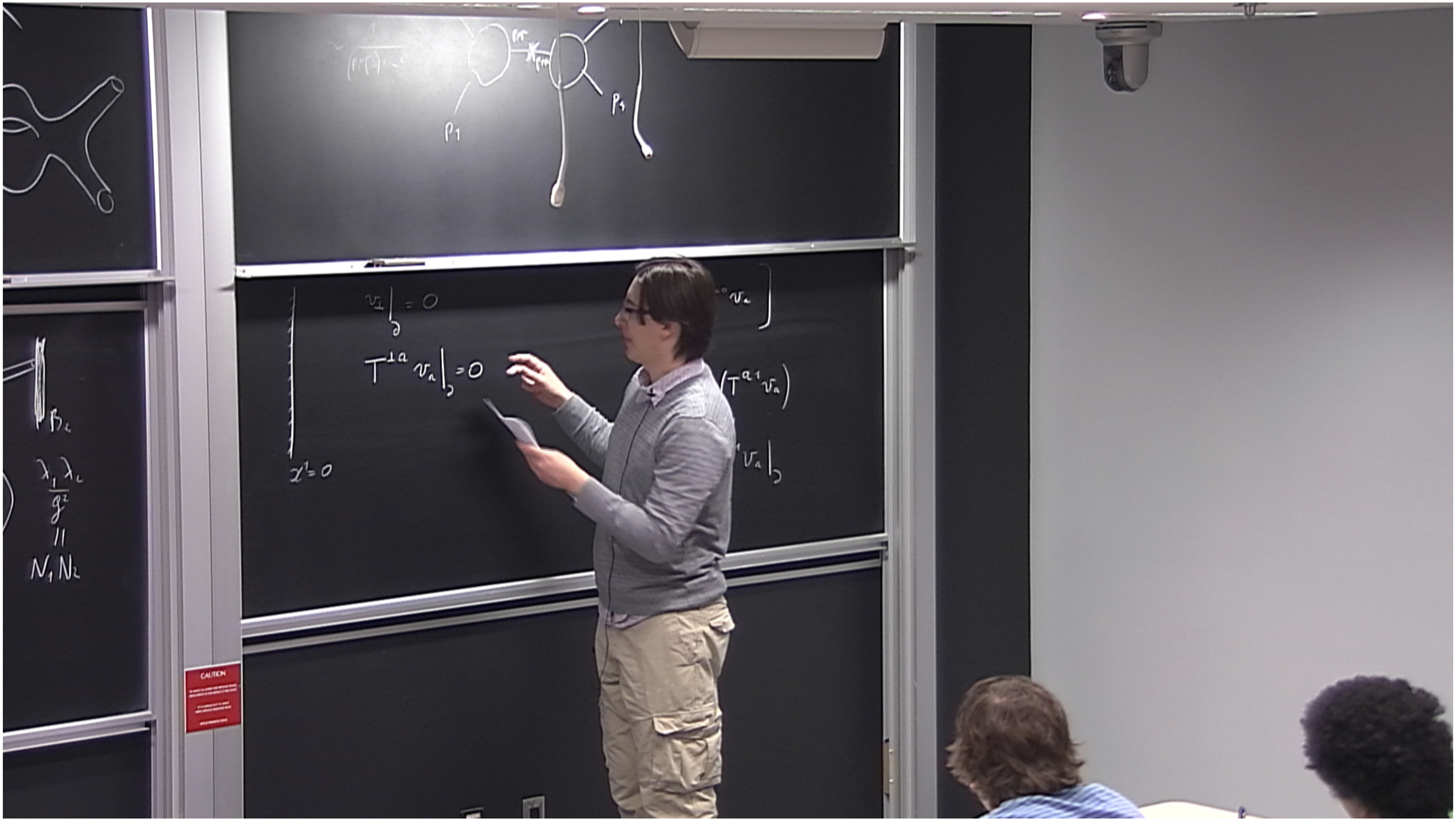

$\nabla^\mu T_{\mu\nu} = 0$
$q\, q'\, g^2$
$\frac{1}{(p_1+p_2)^2+m^2}$
$A[B] = \sum_h \sum_b g^{2h-2} \lambda^b A_{h,b}$
$g^{2h-2+b} N^b$
$A[B_1, B_2 \cdots B_n] = \sum_h \sum_{b_a} g^{2h-2} \prod_a \lambda_a^{b_a} A_{h(b_a)}$
$\lambda_a = (g N_a)$
$\frac{1}{g^2} S_{cl}[\Phi_{cl}] + \frac{1}{g_s} S_{op}(\Phi_{op}, \phi_{cl})$

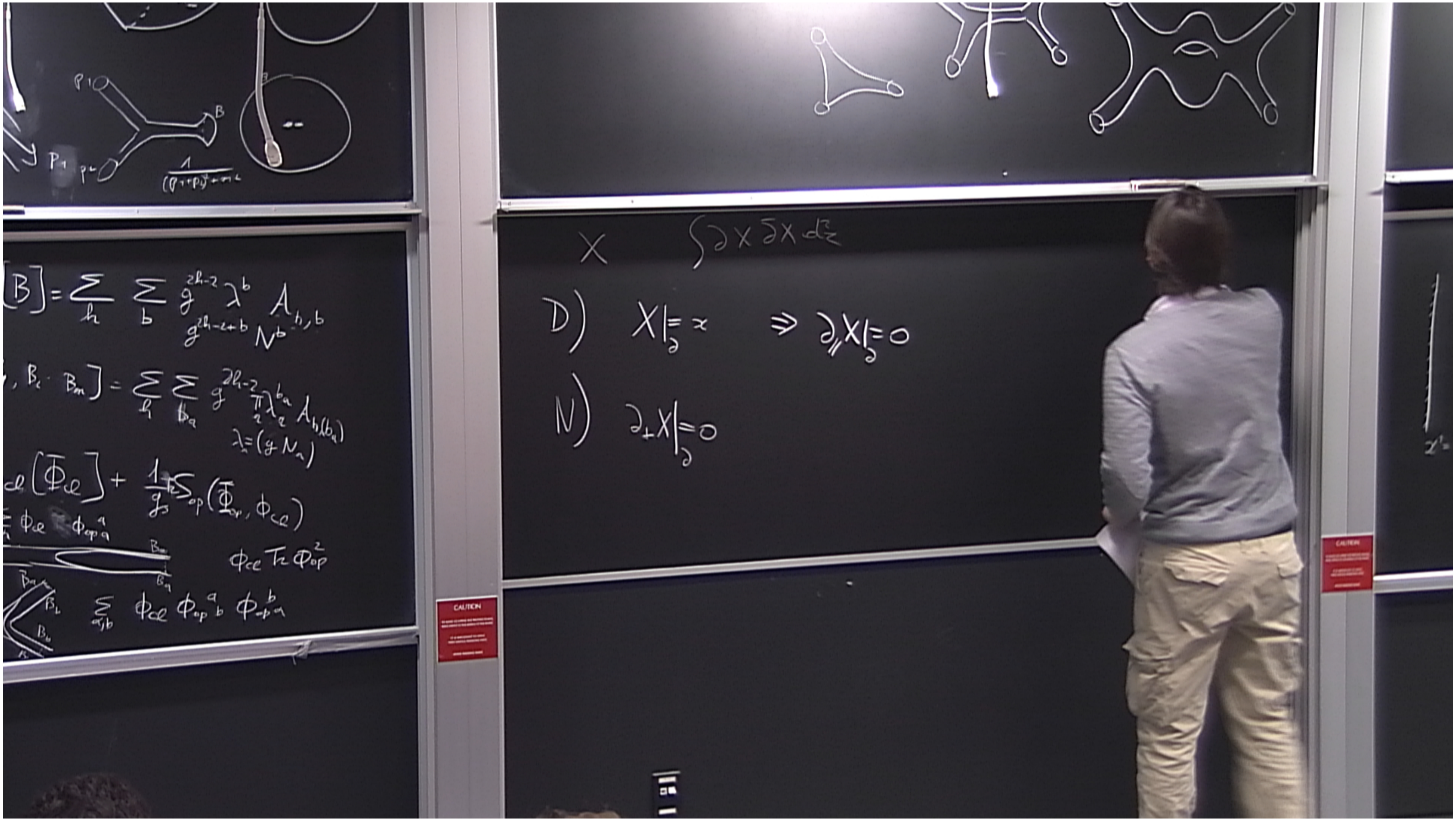

B
P1
B

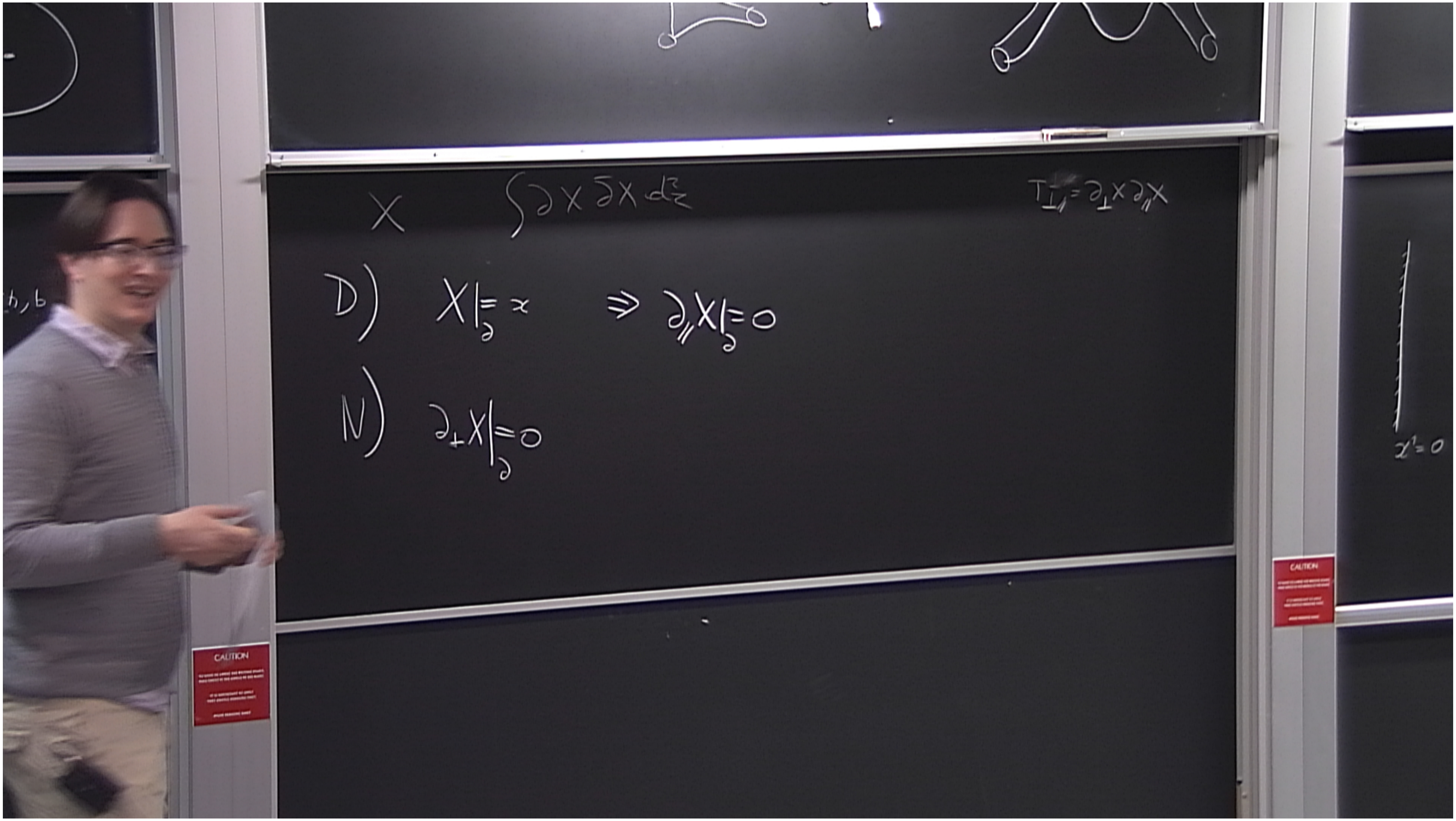

T_μν = 0
q q' g²
P1
P2
B
A[B1, B2 ... Bn] = Σ Σ g^(2h-2) Π λ^(ba) A_h(ba)
λ = (g Na)
1/g² S_cl[Φ_cl] + 1/gs S_op(Φ_op, Φ_cl)



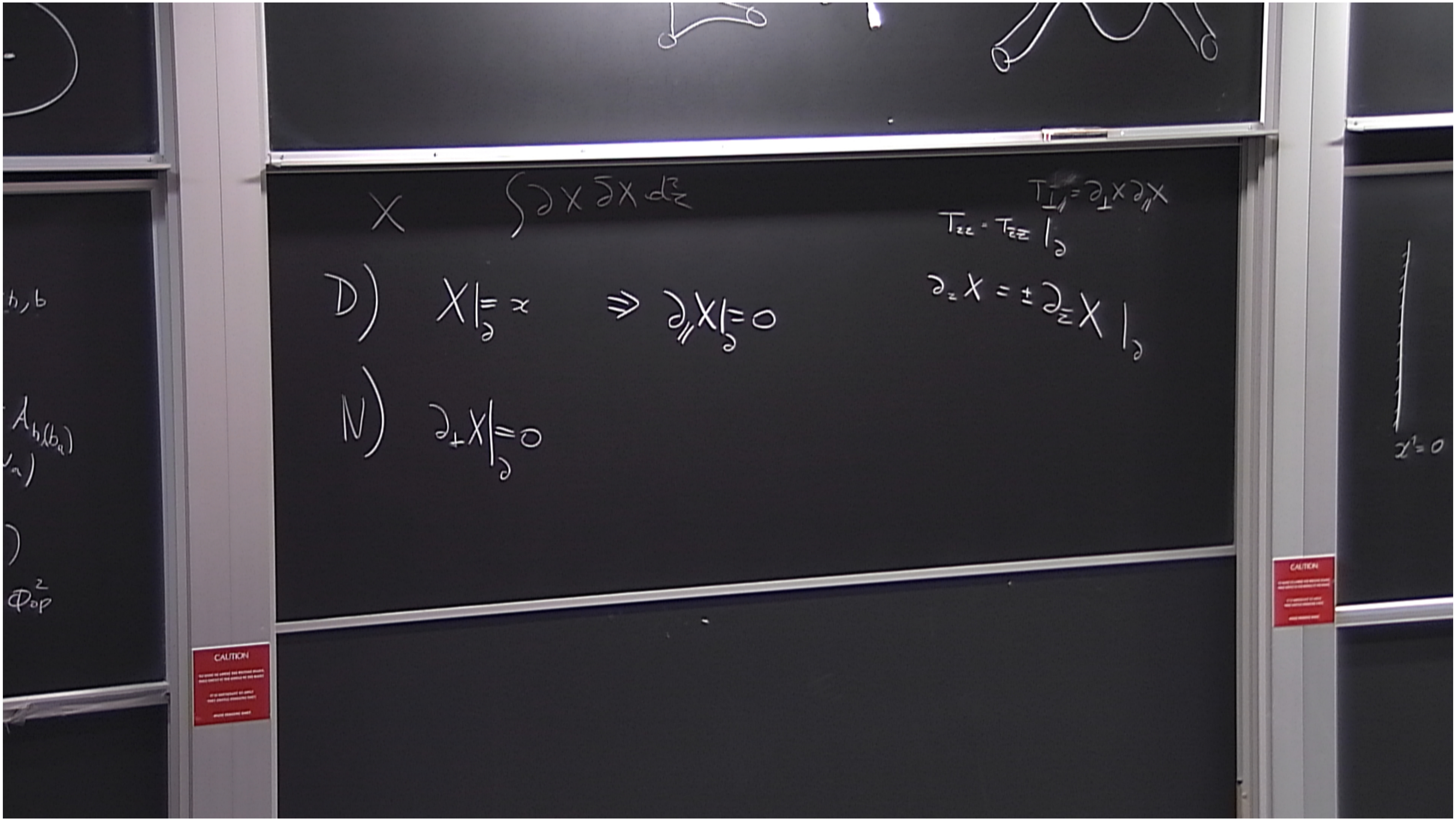


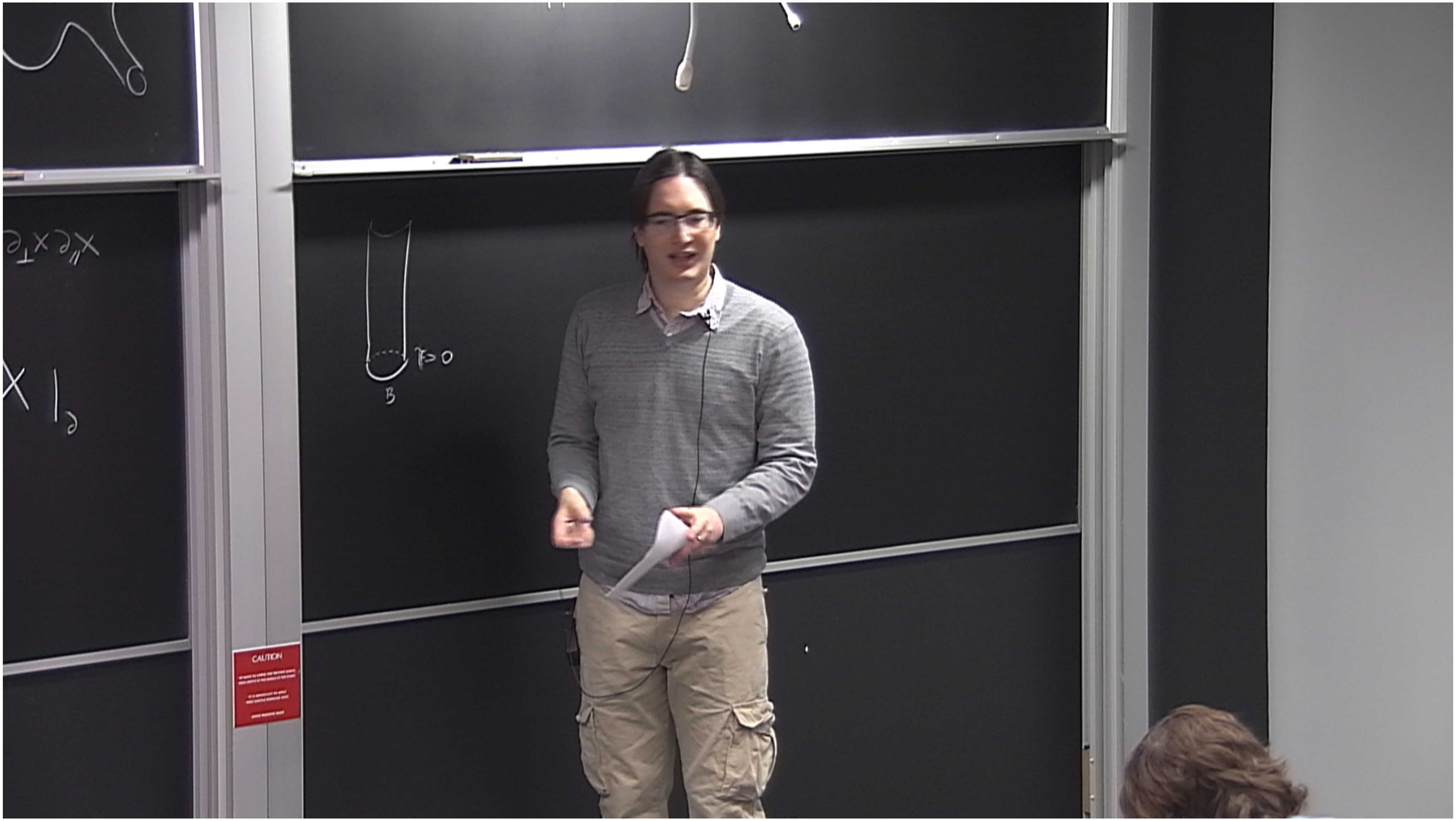


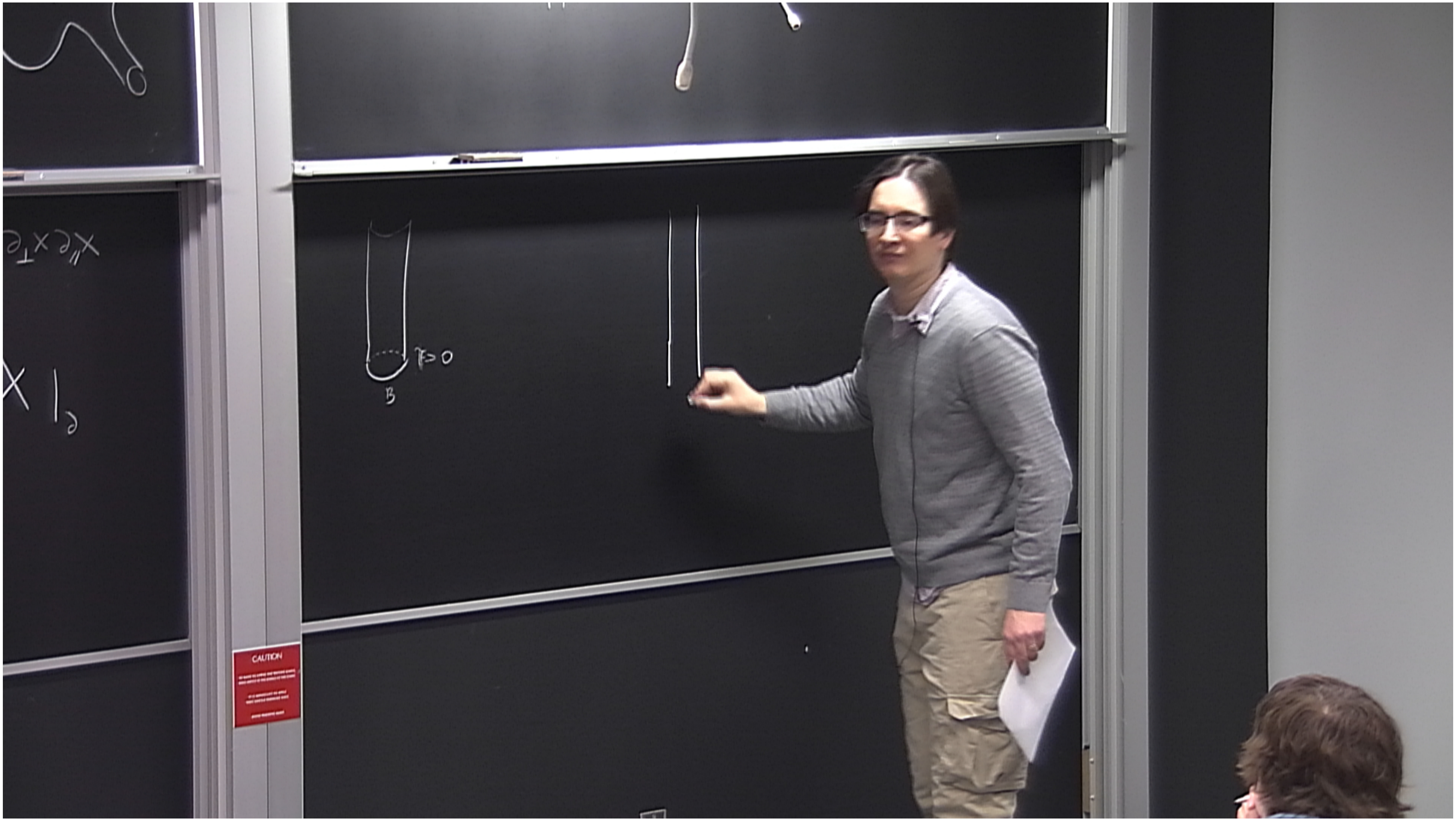

CAUTION
X
∫∂X∂X d²z
D) X|∂ = x ⇒ ∂∥X|∂ = 0
N) ∂⊥X|∂ = 0

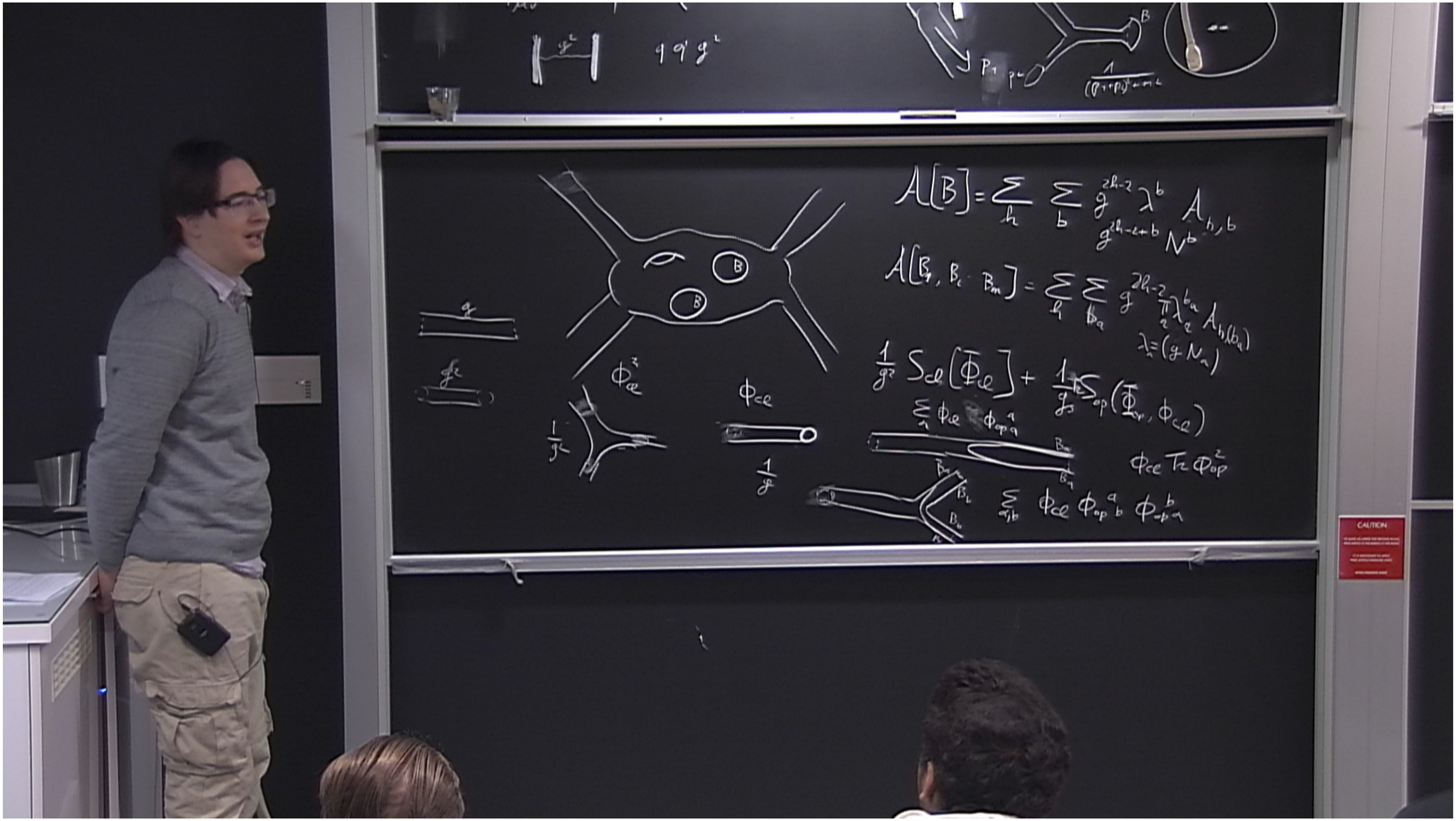


X
∫∂X∂̄X d²z
T⊥∥ = ∂⊥X∂∥X
D) X|∂ = x ⇒ ∂∥X|∂ = 0
N) ∂⊥X|∂ = 0
CAUTION
CAUTION


X
∫∂X∂X d²z
T⊥∥ = ∂⊥X∂∥X
Tzz = Tz̄z̄ |∂
D) X|∂ = x ⇒ ∂∥X|∂ = 0
∂zX = ±∂z̄X |∂
N) ∂⊥X|∂ = 0
CAUTION
CAUTION







A[B] = Σ_h Σ_b g^{2h-2} λ^b A_{h,b}
g^{2h-2+b} N^b
Φ_cl
1/g