Title: TA Session: Boundary Conditions and Defects in the BV formalism

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Collection: QFT for Mathematicians

Date: June 26, 2019 - 4:00 PM

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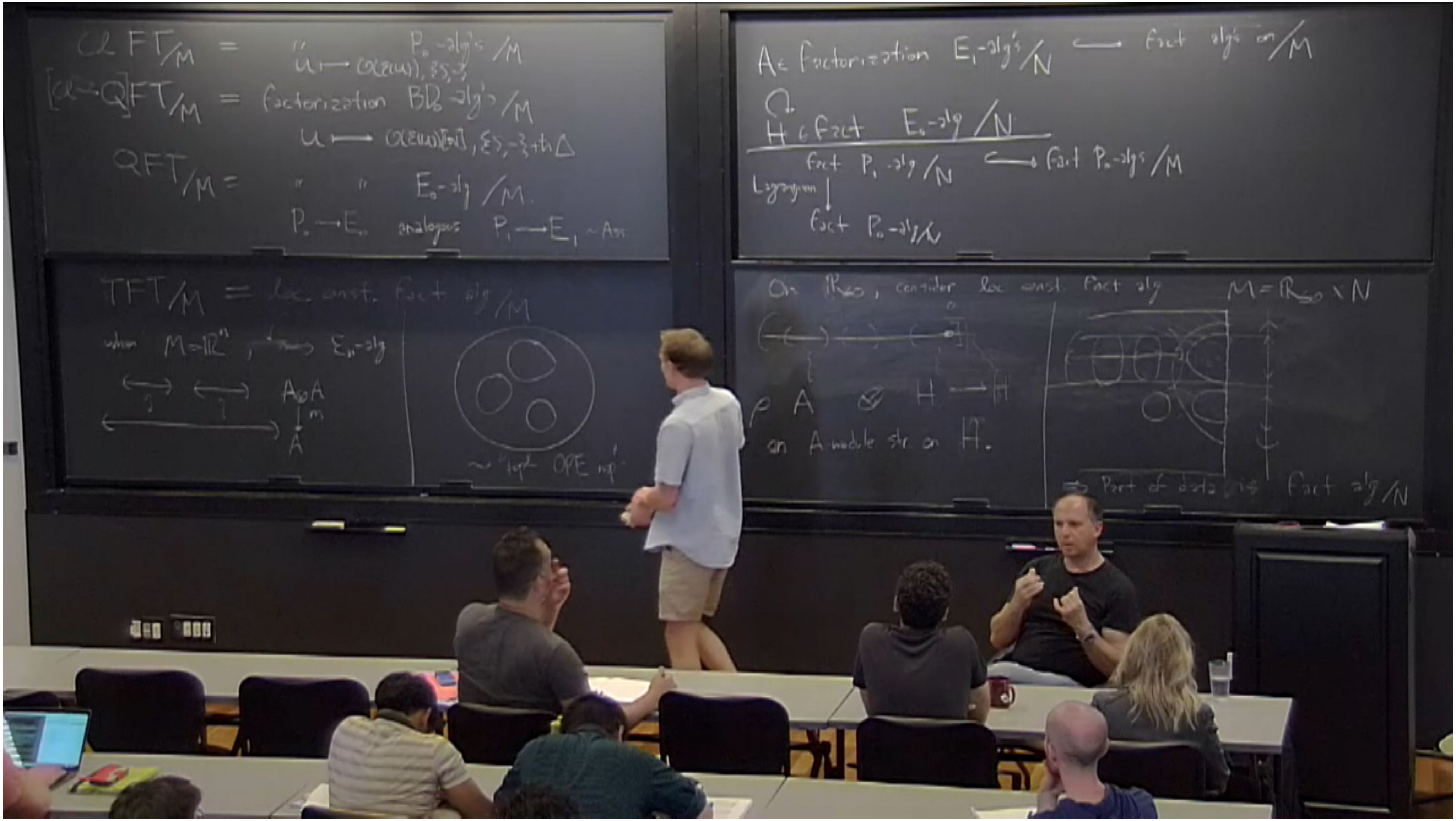
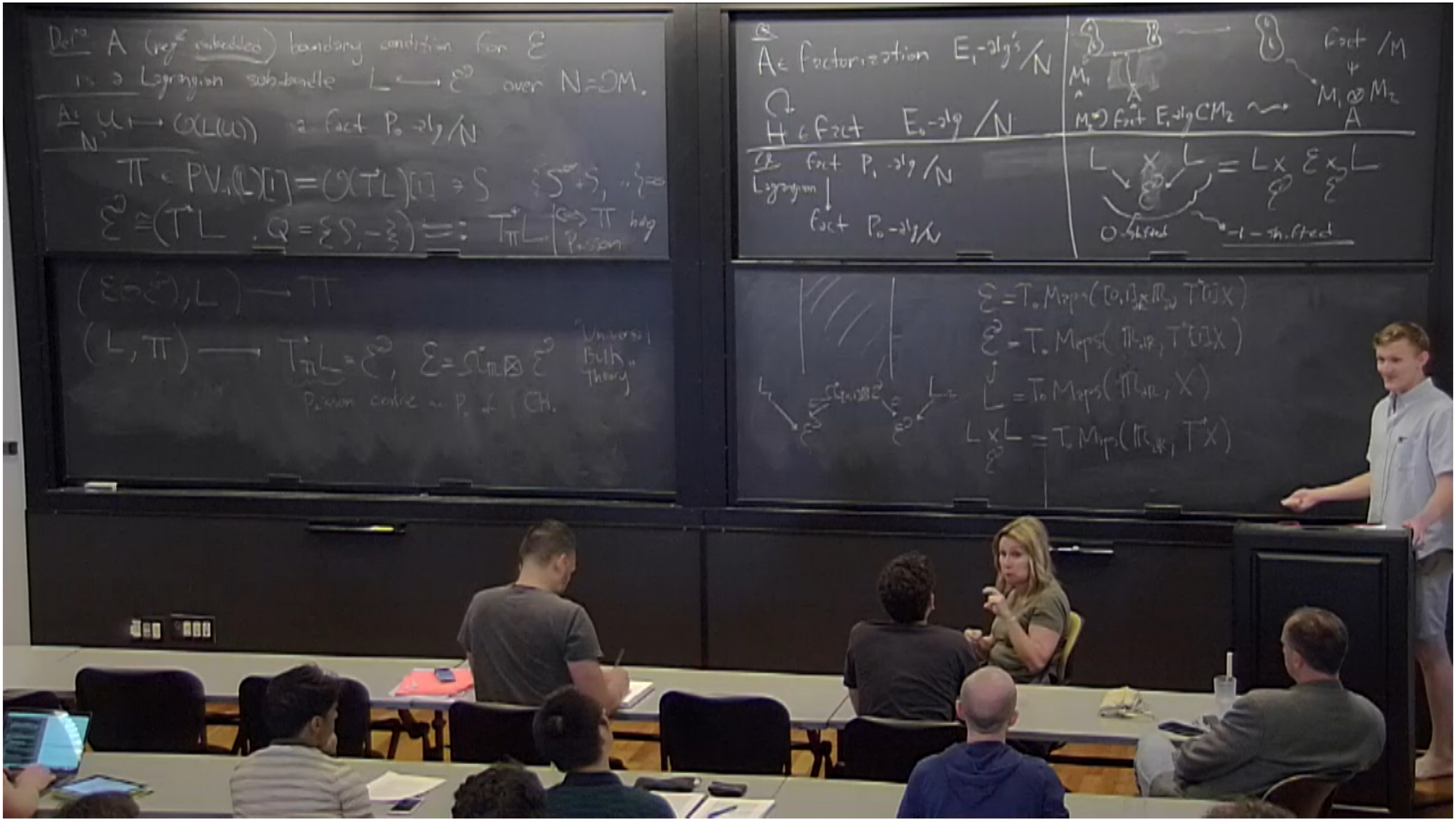
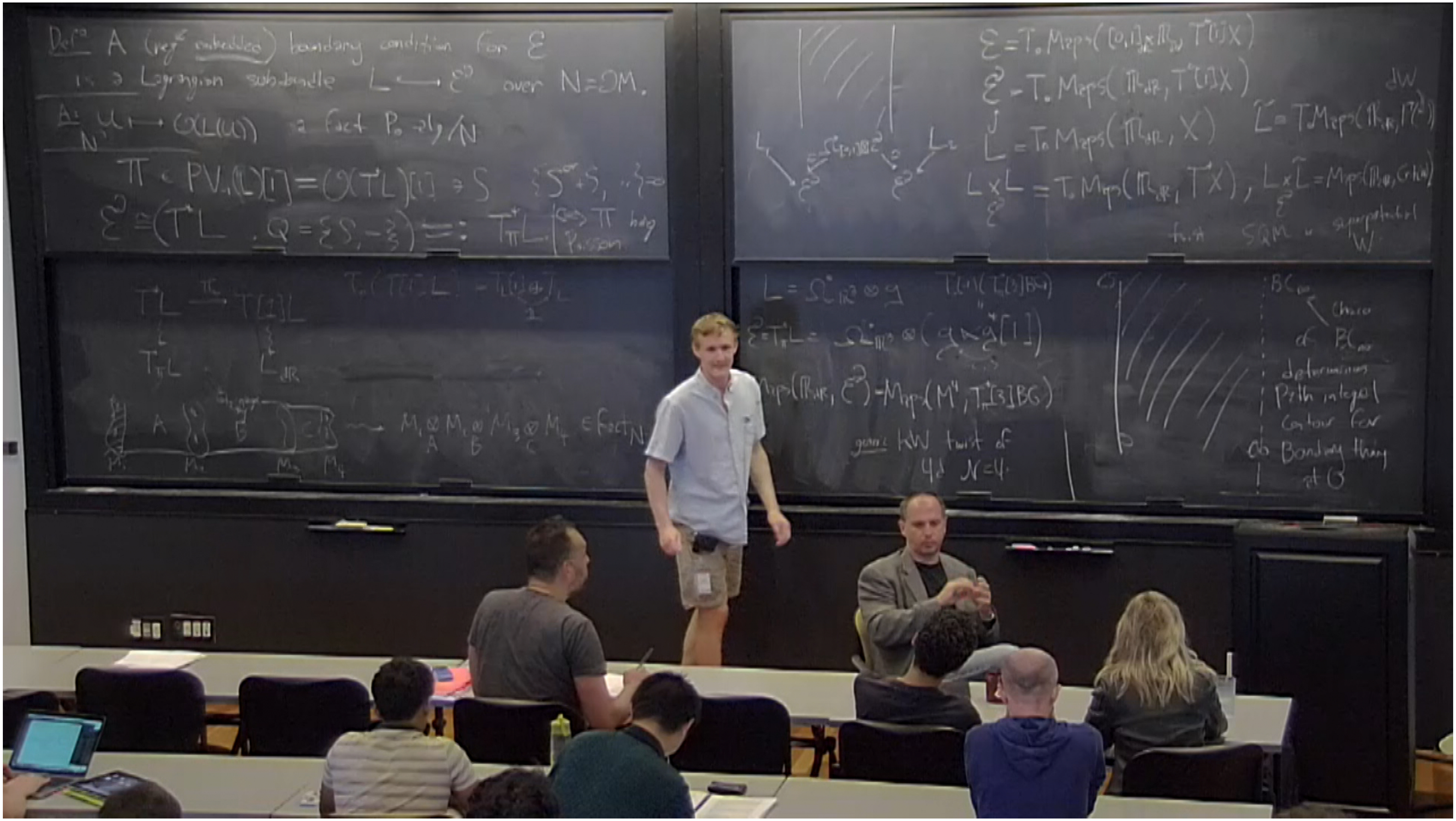


Cl FT/M = " P0-alg's /M
[Cl⇝Q]FT/M = factorization BD-alg's /M
QFT/M = " " E0-alg /M
P0 → E0 analogous P1 → E1 ~ Ass
TFT/M = loc. const. fact alg /M
when M = R^n, E_n-alg
A⊗A
A
~ "top" OPE map"
A ∈ factorization E1-alg's /N ↪ fact alg's on /M
H ∈ fact E0-alg /N
fact P1-alg /N ↪ fact P0-alg's /M
Lagrangian
fact P0-alg /N
On R≥0, consider loc. const. fact alg
M = R≥0 × N
ρ A ⊗ H → H
an A-module str. on H.
⇒ Part of data is fact alg /N


Defn A (reg embedded) boundary condition for E
is a Lagrangian sub-bundle L ⟶ E over N = ∂M.
fact P_0-alg /N
fact P_1-alg /N
Lagrangian
fact E_1-alg's /N
fact E_0-alg /N
Universal Bulk Theory
Poisson centre
0-shifted
-1-shifted


boundary condition for
is a Lagrangian subbundle
over N=∂M.
Choice
of BC
determines
Path integral
contour for
Boundary thing
generic KW twist of
4d N=4.