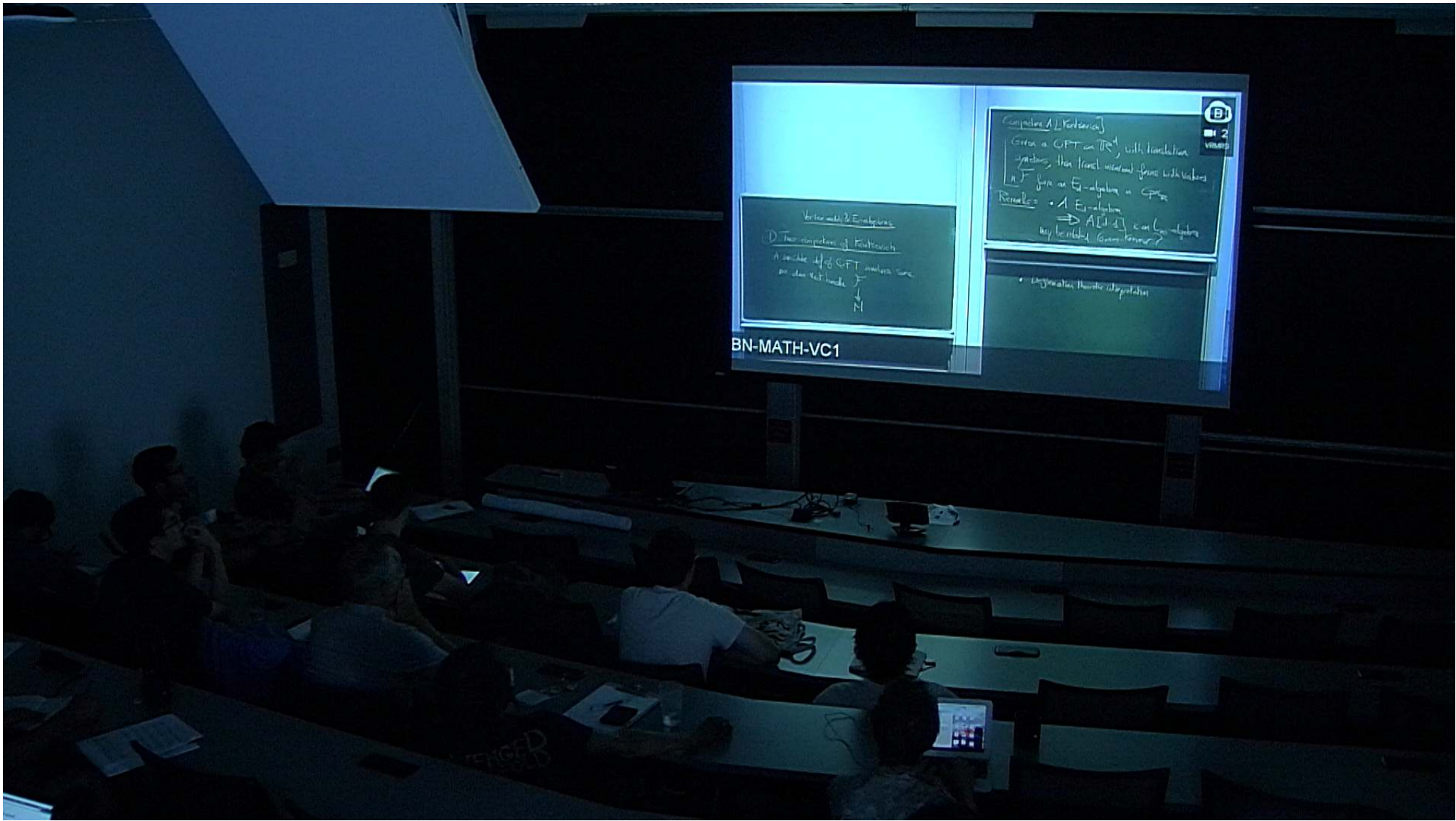


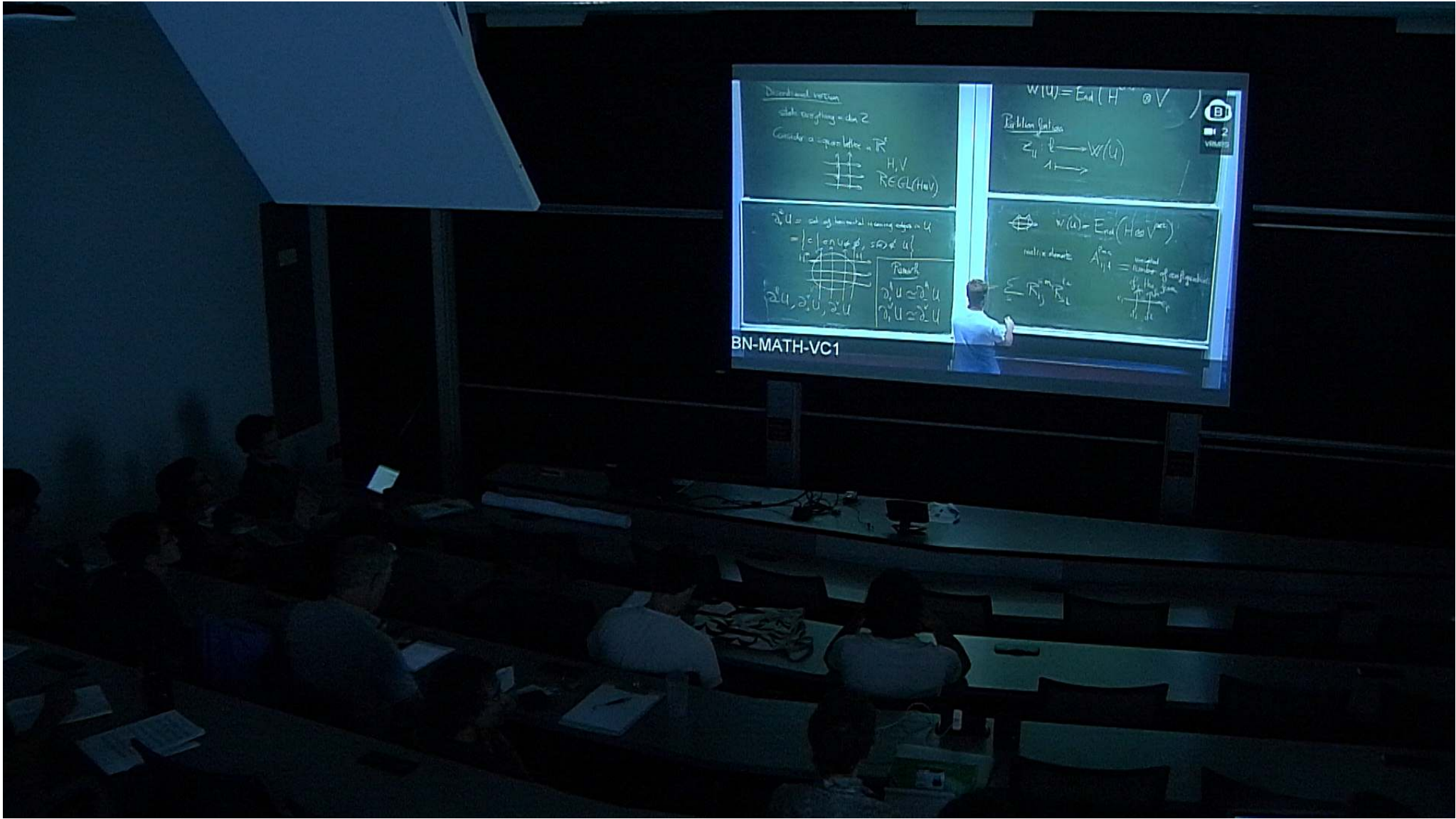
Title: Vertex models and En-algebras

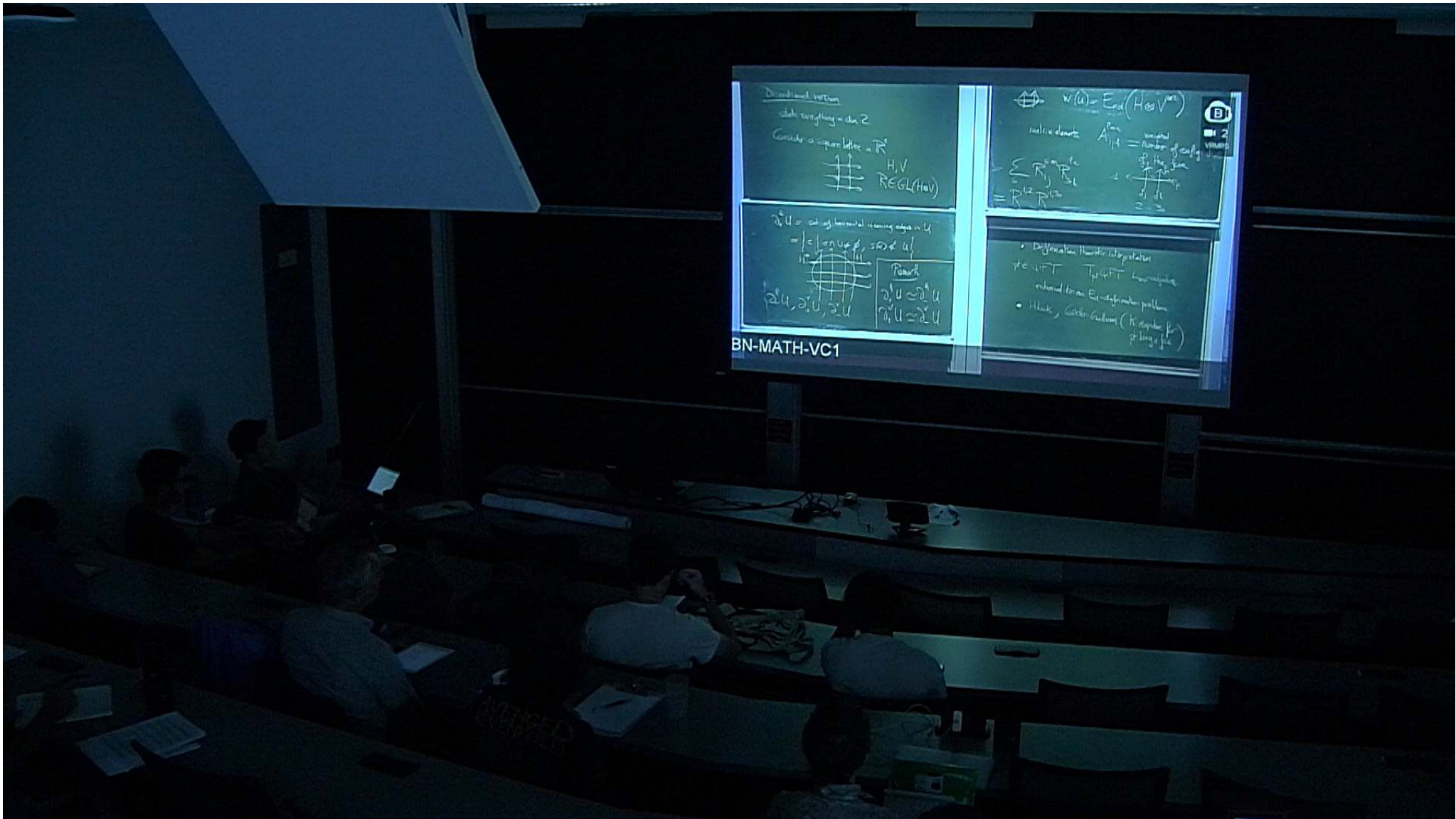
Date: Aug 14, 2018 12:00 PM

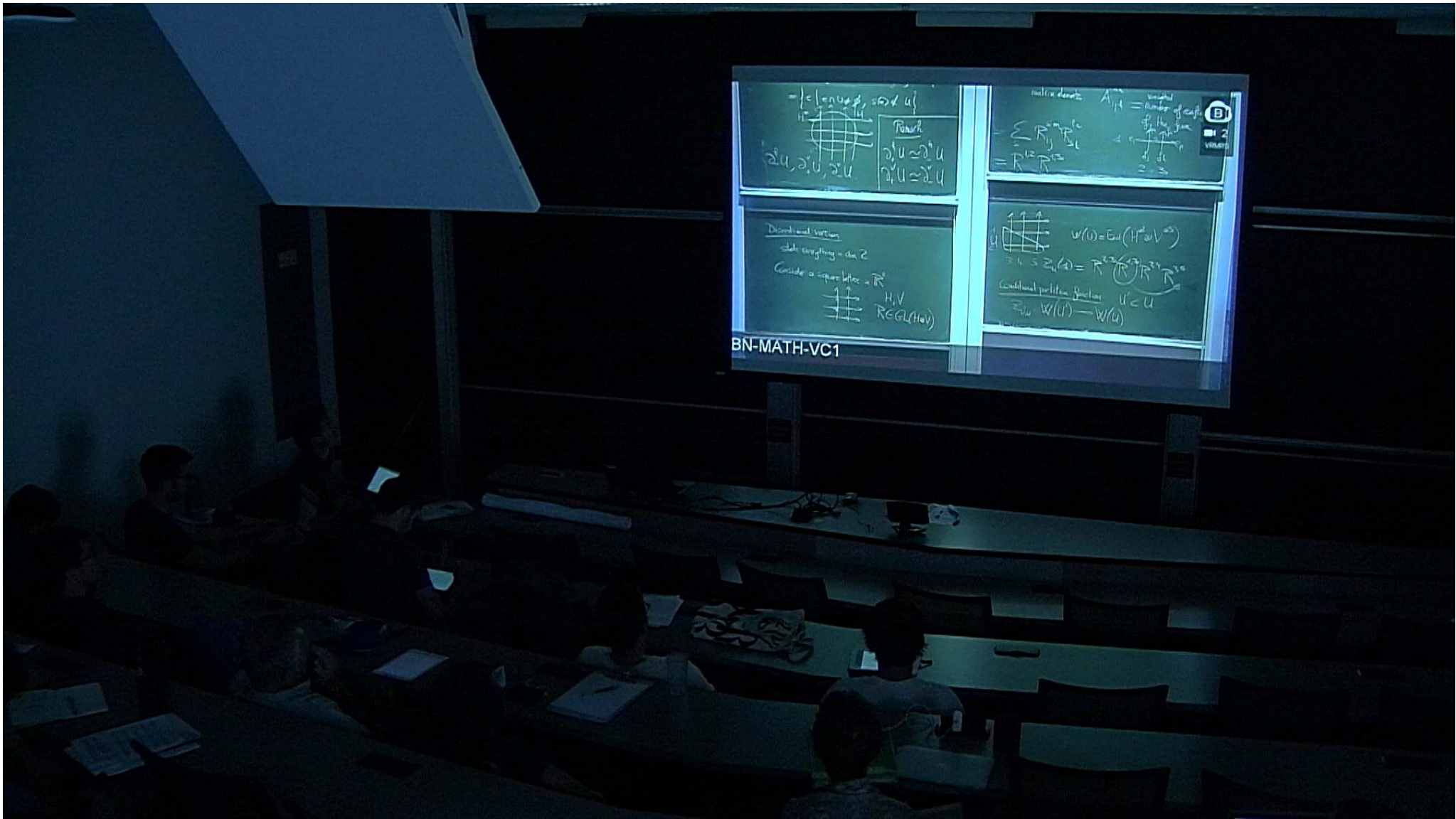
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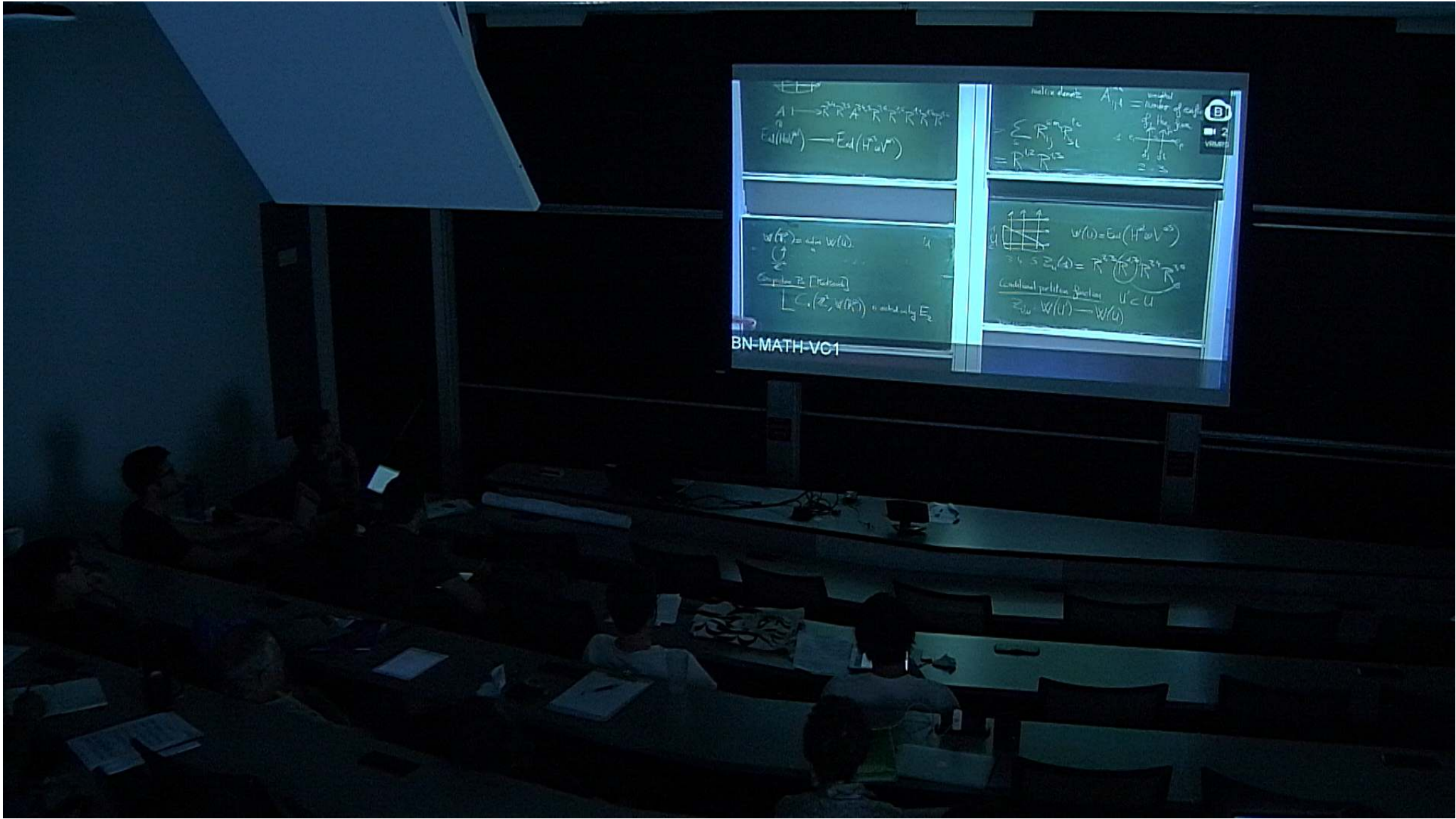
Abstract: I will explain and state a conjecture of Kontsevich, that relates vertex models from statistical mechanics to En-algebras. I will also give the main ingredients of the proof of Kontsevich's conjecture, which is a joint work in progress with Damien Lejay.













\mathbb{C}
 Simple \mathbb{Z} [Kleinian]
 $[L_{g_1}(Z), W(R^2)]$ is acted on by E_2

matrix denote $A_{ij} =$ number of cells
 $\sum_{j=1}^m R_{ij} = c_i$
 $\sum_{i=1}^m R_{ij} = c_j$
 $\sum_{i,j} R_{ij} = c$

U
 $A \rightarrow R^1 \rightarrow R^2 \rightarrow R^3 \rightarrow R^4 \rightarrow R^5 \rightarrow R^6$
 $\text{End}(H^1 V^*) \rightarrow \text{End}(H^2 V^*)$

$v(U) = \text{End}(H^1 v^*)$
 $\cong \mathbb{Z} \oplus \mathbb{Z} \oplus \mathbb{Z} = \mathbb{Z}^3$
 Conditional partition function $U \subset U$
 $\sum_{U \subset U} W(U) = W(U)$

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