Title: Reflection positivity for extended topological field theories

Speakers: Lukas Mueller

Series: Mathematical Physics

Date: October 05, 2023 - 1:30 PM

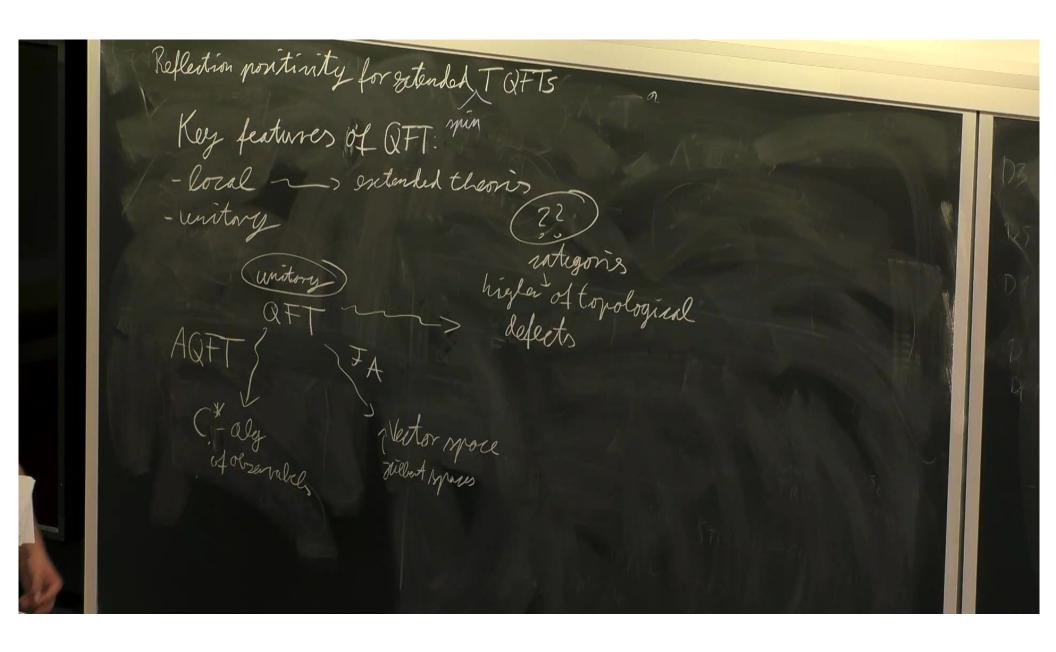
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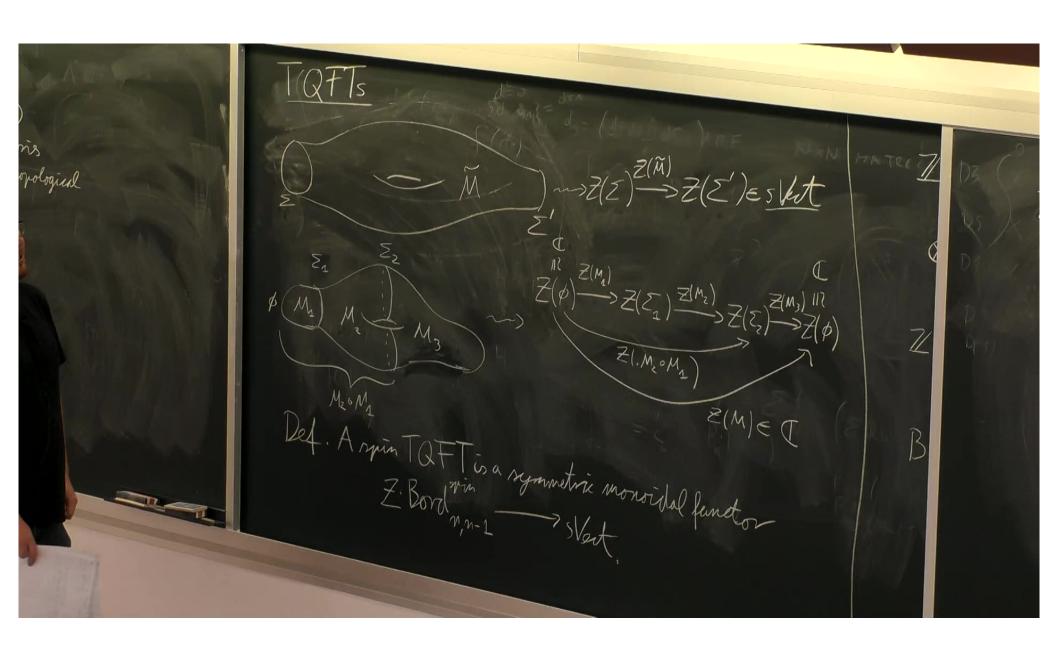
Abstract: In quantum field theories, locality and unitarity are essential properties. For functorial field theories, locality is manifested through compatibility with cutting and gluing of manifolds, which can be fully encoded in the definition of fully extended functorial field theories. However, unitarity or reflection positivity (its Euclidean version) has so far only been defined for non-extended or invertible field theories. In this talk, I will address the challenge of defining reflection positivity for extended topological field theories, proposing a definition based on a version of higher dagger categories.

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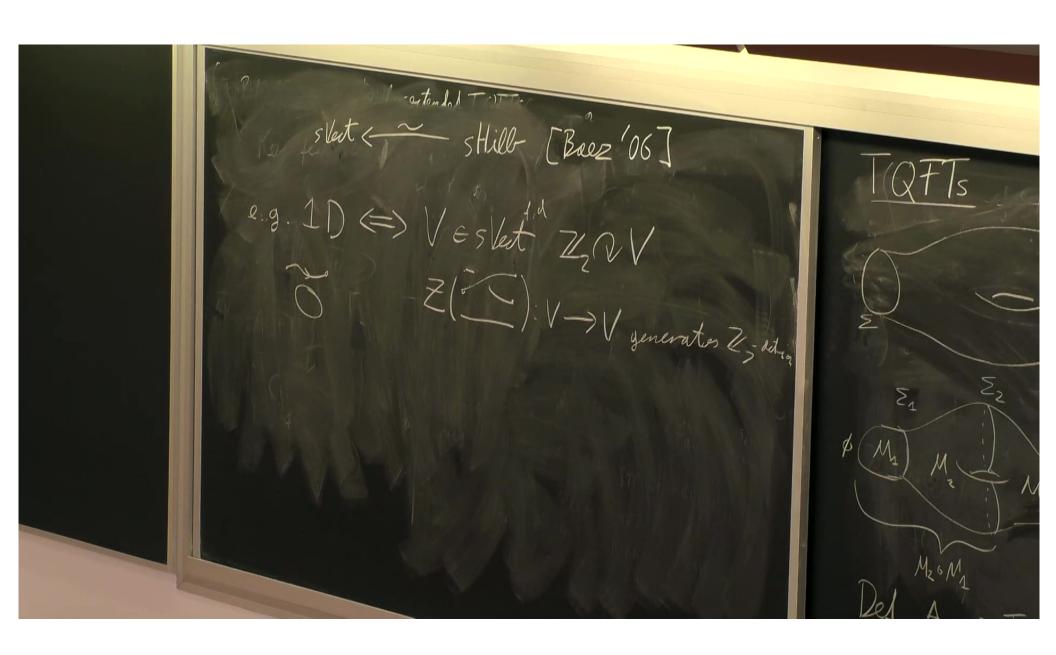
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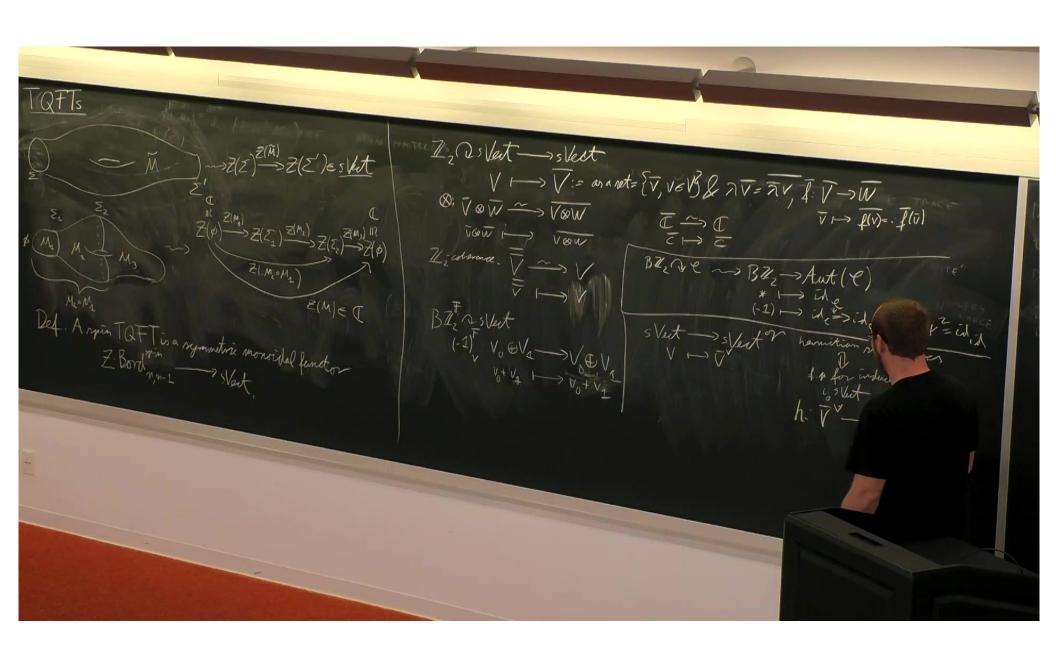


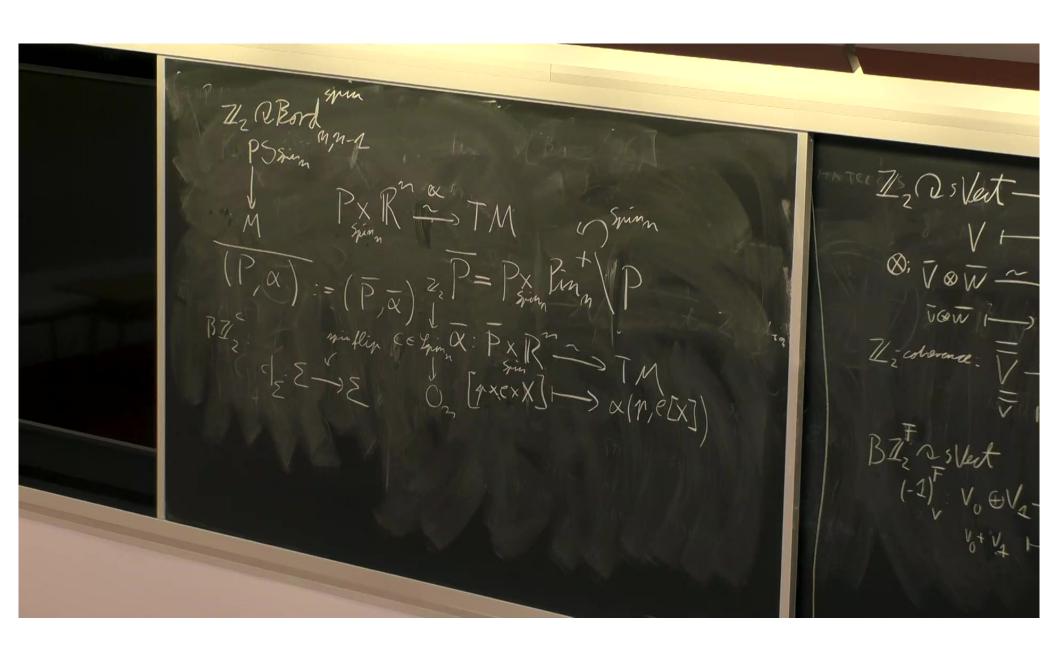


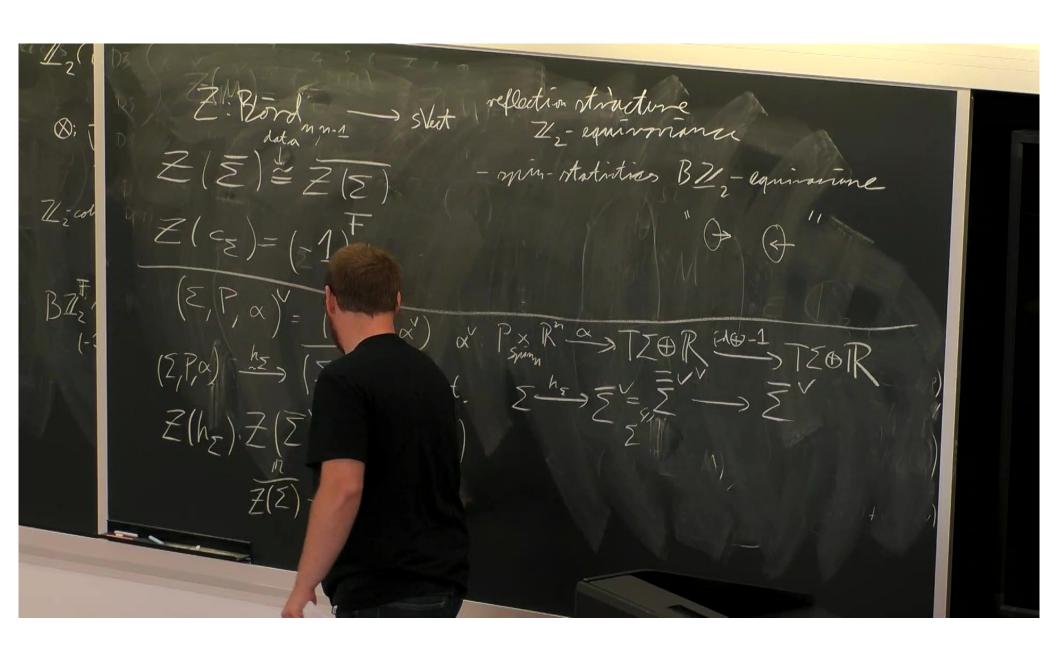
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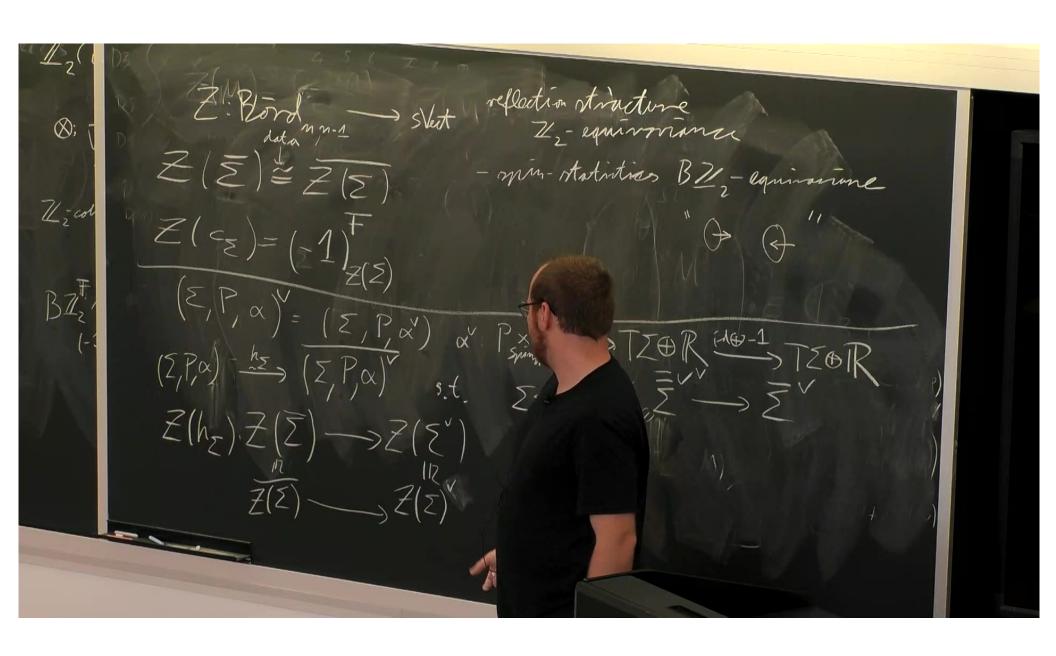
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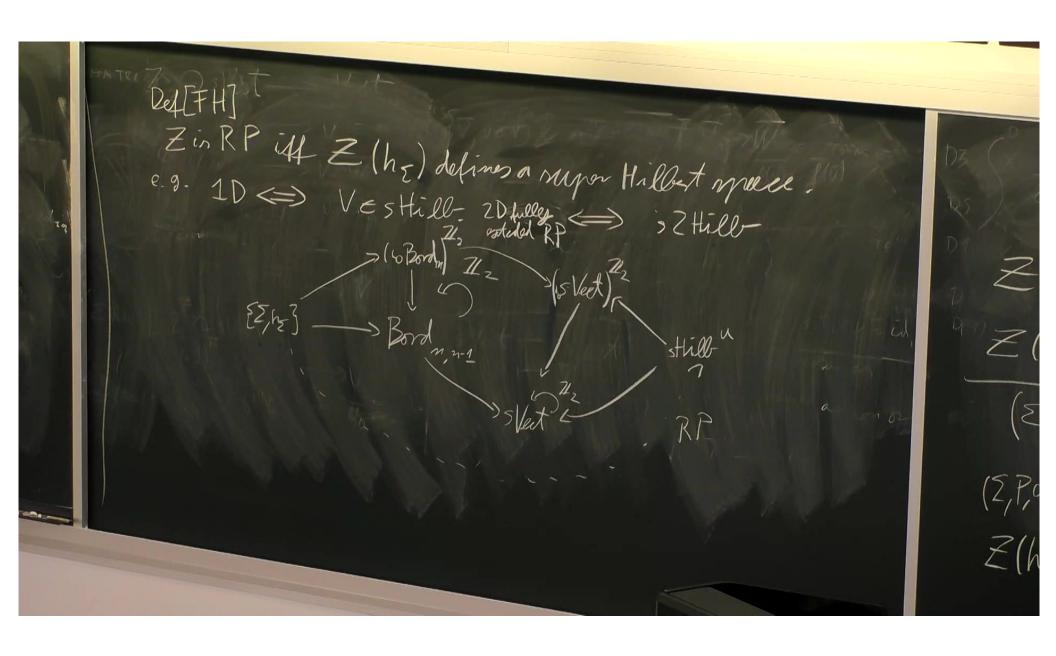


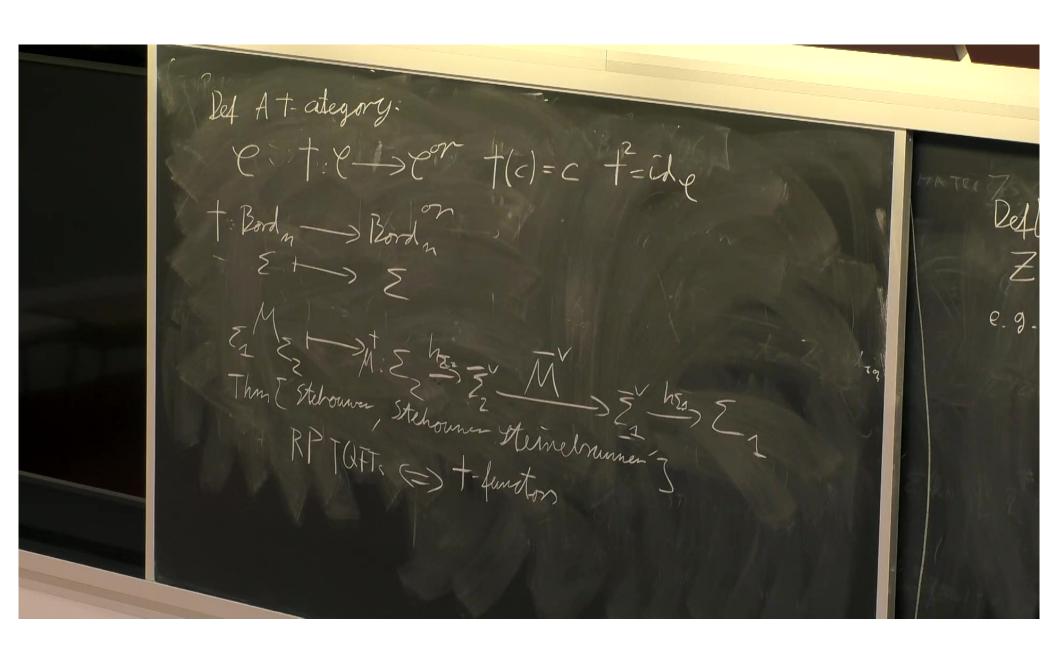


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