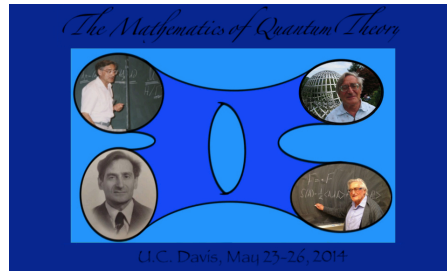


The Mathematics of Quantum Theory



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Convex polytopes and infrared categories.

Monday, 26 May 2014 10:30 (45 minutes)

In a recent work of Gaiotto, Moore and Witten the “algebra of the infrared” for certain massive 2d theories with (2,2) supersymmetry was introduced. For Landau-Ginzburg models it gives a Morse-theoretical description of the corresponding A_∞ -category of A-branes. It turns out that the combinatorial part of their work admits a higher-dimensional generalization. I am going to discuss that generalization, its relation to Gaiotto-Moore-Witten’s work and speculate about possible applications.

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