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Conformal field theory of the integer quantum Hall transition: a status report

vendredi 14 mai 2021 15:00 (1 heure)

Of the five 2D strong topological insulator Anderson transitions, all of which should be logarithmic conformal field theories of Wess-Zumino-Witten type, only one is beginning to be understood: the integer quantum Hall transition. The key feature here is that that the global symmetry of the non-critical system undergoes rank reduction (rather than doubling) at criticality, by a novel mechanism of spontaneous symmetry breaking. In this talk, I will review the current state of our understanding.

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Classification de thématique: 2. Statistical physics targets