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Liouville Field Theory: The demystification of the reflection amplitude and a novel mechanism of spontaneous symmetry breaking

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In short, I shows that Liouville Field Theory (LFT) is the effective field theory of a theory with larger non-compact symmetry group which undergoes a novel mechanism of spontaneous symmetry breaking. The famous, but ill-understood, reflection amplitude of LFT acquires a natural explanation in this context and can be derived from a purely representation theoretic viewpoint. Furthermore, this correspondence provides an exact mechanism for the well-known Sl(2,C)-WZW model/LFT correspondence and a possible proof of the AdS_3/CFT_2 correspondence.

Summary

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