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Fukaya category of Landau-Ginzburg model via Witten equation

Tuesday 4 February 2025 14:00 (1 hour)

Landau-Ginzburg model has become a cornerstone theory of global mirror symmetry. The closed string A-theory of a LG model has already been built, and is well-known as the quantum singularity theory (or FJRW theory). An open string theory of a LG model has also been treated in the paper "Fukaya Category of Landau-Ginzburg model, arXiv:18012.11748v1", but with not much attention. In this talk, I will recall the construction in this paper, which is related to the boundary value problem of the Witten equations arising from Landau-Ginzburg model, and mention the Maurer-Cartan element conjecture proposed by Gaiotto-Moore-Witten (or Kapranov-Kontsevich-Soibelman).

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