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Keywords Authors	Abstract: After review the 2D YangMills theories (YM_2) and its largeN behaviour, the Generalized 2D YangMills theories (gYM_2) and their partition functions on a general twodimensional Riemann surface are discussed. The largeN behaviour of these models is studied in weak regime, and in strong regime, we restrict ourselves to ϕ^4 gYM ₂ . We show that this model has a third order phase transition, similar to ordinary YM ₂ theory.
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