

1067-46-622

Douglas M Pickrell* (pickrell@math.arizona.edu), Mathematics Department, University of Arizona, Tucson, AZ 85721. *Heat kernel measures and critical limits.*

In the survey paper ArXiv 0711.0410, I attempted to outline some possible connections between conjectural limits of heat kernel measures on infinite dimensional Lie groups (such as loop groups), and "Feynman-Kac measures" for 2D sigma models with simply connected compact Lie group target. In this brief talk I will attempt to give an overview of this in terms of a single picture. (Received September 11, 2010)