



Department of
Theoretical Physics

THE QUANTUM SPACETIME SEMINAR SERIES

Emergent phase space description of unitary matrix model

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In this talk we shall first discuss a phase space description of a generic unitary matrix model and see how different phases of the theory can be characterized in terms of different topologies of two dimensional droplets in phase space. Finally, we write CS theory on S^3 in terms of a unitary matrix model and provide a phase space description of the same. The phase space description of gauge theories can be used to provide a dual quantum mechanical description of string degrees of freedom, since different large N phases of gauge theory are dual to classical solutions of string theory in AdS space.

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