

## THE QUANTUM SPACETIME SEMINAR SERIES

## Three dimensional (super) Yang-Mills with compressible quark matter.

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Date: April 25, 2016 Time: 11.30 am Venue: A-304, TIFR



(Duration and Location are subject to irreducible jitter)

Finite density systems have rich, varied, and often poorly-understood phases. In this talk, we will review some recent progress on the understanding of the nature of the ground state of a strongly coupled, finite density system with fundamental matter field, using the methods of Gauge-Gravity duality. We will discuss the so-called Veneziano limit, in which both the number of colours and flavours are taken to be large, and discuss the dual solutions of supergravity withsources. To explicitly map out the details, we will focus on (2+1)-dimensions and discuss the corresponding physics.

## Infosys