



Department of  
Theoretical Physics

# THE QUANTUM SPACETIME SEMINAR SERIES

## The large charge limit and giant vortices

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**Time:** 9 AM IST

Zoom link shall be shared separately



In recent years it has been shown that strongly coupled many body systems become analytically tractable in the regime of large quantum numbers, such as large spin or large charge. We will review these developments and also describe a new phase, the "giant vortex," describing states with large spin and charge. The giant vortex admits a semi-classical effective theory description with peculiar chiral excitations (moving at the speed of light) and an infinite degeneracy.