



Department of  
Theoretical Physics

# ***THE QUANTUM SPACETIME SEMINAR***

***The Tata-Infosys Lecture Series***

## **Yangian Symmetry: From Two to Four Dimensions**

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**Date:** May 8<sup>th</sup>, 9<sup>th</sup>, 10<sup>th</sup> 2018

**Time:** 11:30 am

**Venue:** A-304, TIFR



In these lectures we introduce Drinfeld's Yangian algebra and discuss some of its applications in physics. Starting from its origins in two-dimensional models, we explain the role of the Yangian in the context of quantum groups and the Yang-Baxter equation. Finally, we illustrate how the Yangian finds its way into the AdS/CFT duality and four-dimensional N=4 super Yang-Mills theory..

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