



ICTS

INTERNATIONAL  
CENTRE *for*  
THEORETICAL  
SCIENCES

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

## **ICTS-String Theory Lecture**

Title : An exact AdS3/CFT2 duality

Speaker : Matthias Gaberdiel, ETH, Zurich

Date : Friday, September 6, 2019

Time : 4:00 PM

Venue : Nambu Discussion Room (Left), ICTS Campus, Bangalore

Abstract : I will explain various pieces of evidence in favour of an exact duality relating string theory on  $\text{AdS}_3 \times S^3 \times T^4$  with minimal NSNS flux ( $k=1$ ) to the symmetric orbifold of  $T^4$ . In particular, I shall demonstrate that the spectrum matches exactly, and I shall outline first results indicating that the structure of correlation functions of the symmetric orbifold is exactly reproduced from the world-sheet. (This is based on work, partially in progress, with Lorenz Eberhardt and Rajesh Gopakumar.)