



NITheP Colloquium Monday, 12 April 2021, 16h00

Prof Shiraz Minwalla | The Department of Theoretical Physics, Tata Institute of Fundamental Research, Mumbai, India

“Bose Fermi Dualities in 3 spacetime dimensions”



Fermions and Bosons are irreducibly different from each other in four and more spacetime dimensions. This difference blurs out in 3 spacetime dimensions. This fact permits an interesting phenomenon. There is now substantial evidence that theories of Fermions (coupled to Chern Simons theories) actually describe the same physics as other theories of Bosons (also coupled to Chern Simons theories). I will review what is understood - and what is not - about this (at first sight surprising) equivalence.

BIOGRAPHY

Professor Shiraz Minwalla is Senior Professor at the Department of Theoretical Physics at TIFR(Tata Institute of Fundamental Research) Mumbai, India. He has made important contributions to the study of several aspects of quantum field theory, general relativity and string theory. His work has been recognized by several honours including the New Horizon's prize, the TWAS award, the Infosys prize, the Shanti Swarup Bhatnagar award, the inaugural Nishina Asia Award and the ICTP prize.

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