

Curriculum Vitae

Personal Information

- **Name:** Mangesh Mandlik
- **Place of birth:** Kolhapur, Maharashtra, India
- **Date of birth:** December 22, 1987
- **Nationality:** Indian
- **Marital status:** Single
- **Gender:** Male
- **Category:** General

Present Position

Assistant Professor in the Physics Department at IIT(ISM) Dhanbad

Past Positions

Post Doctoral Fellow in the Department of Physics, IIT Kanpur, Kanpur, India
August 2019- April 2023

Joint Post Doctoral Fellow in the Faculty of Physics, Technion - Israel Institute of Technology
and the University of Haifa, Haifa, Israel October 2016 - July 2019.

PhD

Department of Theoretical Physics,
Tata Institute of Fundamental Research, Mumbai August 2010 - July 2016.
Advisor: Prof. Shiraz Minwalla.

Contact Information

- **Permanent Address:**
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Dhanbad, Jharkhand-826001, India.
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Education

- Bachelor of Chemical Engineering (B.Chem.Engg.) in 2009 from Mumbai University Institute of Chemical Technology (MUCT), Mumbai.

Research Interests

String Theory, Quantum Field Theory, scattering amplitudes, black holes, black hole entropy, Hydrodynamics, AdS/CFT, Carrollian Field theories, tensionless strings.

Teaching Experience Before Current Position

- Aug-Nov 2012 : Teaching Assistance for the course on “Quantum Mechanics-I” taught by Prof. N. Mathur as a part of graduate programme at TIFR.
- Aug-Nov 2013 : Teaching Assistance for the course on “Atomic and Molecular Physics” taught by Prof. V. Prabhudesai as a part of graduate programme at TIFR.
- Feb-May 2014 : Teaching Assistance for the course on “Quantum Field Theory-I” taught by Prof. R. Sharma as a part of graduate programme at TIFR.
- Jan-Sept 2020 : Teaching Assistance for the course on “Special Relativity” taught by Prof. N. Kundu at IITK.

Teaching Experience in the Current Position

- Theory Course:PHO302 Introduction to Astronomy and Astrophysics in Monsoon Semester of session 2023-24
- Lab Course: PHI102 1st year B.Tech. Common Lab in Monsoon Semester of session 2023-24
- Lab Course: PHC507 M.Sc. Physics Lab in Monsoon Semester of session 2023-24
- Theory Course:PHD502 Computational Physics in Winter Semester of session 2023-24 item Lab Course: PHI102 1st year B.Tech. Common Lab in Winter Semester of session 2023-24

List of Publications

- S. Jain, M. Mandlik, S. Minwalla, T. Takimi, S. Wadia and S. Yokoyama, “Unitarity, Crossing Symmetry and Duality of the S-matrix in Large N Chern-Simons Theories with Fundamental Matter,” arXiv:1404.6373 [hep-th], JHEP 04 (2015) 129.
- Y. Dandekar, M. Mandlik and S. Minwalla, “Poles in the S-Matrix of Relativistic Chern-Simons Matter theories from Quantum Mechanics,” arXiv:1407.1322 [hep-th], JHEP 04 (2015) 102.

- S. Bhattacharyya, M. Mandlik, S. Minwalla and S. Thakur, “A Charged Membrane Paradigm at Large D ,”
arXiv:1511.03432 [hep-th], JHEP 04 (2016) 128.
- S. Bhattacharyya, A. Mandal, M. Mandlik, S. Minwalla, U. Mehta, U. Sharma and S. Thakur, “Currents and Radiation from the large D Black Hole Membrane,”
arXiv:1611.09310 [hep-th], JHEP 05 (2017) 098.
- M. Mandlik and S. Thakur, “Stationary Solutions from the Large D Membrane Paradigm,”
arXiv: 1806.04637 [hep-th], JHEP 11 (2018) 026,
- M. Mandlik, “Black Rings in Large D Membrane Paradigm at the First Order,”
arXiv: 2006.16163 [hep-th], JHEP 02 (2021) 036.
- M. Mandlik, “de Sitter Static Black Ring in Large D Membrane Paradigm at the Second Order,”
arXiv: 2011.13351 [hep-th].
- A. Bagchi, M. Mandlik and P. Sharma, “Tensionless Tales: Vacua and Critical Dimensions,”
arXiv: 2105.09682 [hep-th], JHEP 08 (2021) 054.
- A. Bagchi, A. Banerjee, J. Hartong, E. Have, K.S. Kolekar, M. Mandlik, “Strings Near Black Holes are Carrollian,”
arXiv: 2312.20240 [hep-th], Phys.Rev.D 110 (2024) 8, 086009.
- A. Bagchi, A. Lipstein, M. Mandlik, A. Mehra, “3d Carrollian Chern-Simons Theory and 2d Yang-Mills,”
Arxiv: 2407.13574 [hep-th], JHEP 11 (2024) 006.