

Centre for Theoretical Physics

Jamia Millia Islamia New Delhi



Lecture Series

Lectures on Conformal Field Theories

26th April 2019 onwards

Amin Nizami

Ashoka University, Sonapat, Haryana.



This set of lectures (**about 4 in all**) on Conformal Quantum Field theories is addressed primarily to physics Masters and PhD students. We will begin by motivating the study of conformal field theories (CFTs) and go on to discuss the basics of conformal symmetry, correlation functions in CFTs and eventually a simple introduction to the conformal bootstrap program. I will try and highlight some current research themes as we go along. Given the wide applicability of CFTs, the lectures should hopefully be useful for an audience with diverse backgrounds - in condensed matter physics, field theory, particle physics, cosmology and gravity. Knowledge of Quantum Mechanics (especially symmetries in QM) and some basic field theory will be assumed.

All are invited to attend the lectures as per the schedule given below.

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|-----------|----------------------------|-----------|-----------------|
| Lecture 1 | 26 April 2019, 11:00-12:00 | Lecture 2 | To be announced |
| Lecture 3 | To be announced | Lecture 4 | To be announced |

Venue: CTP Seminar Room

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Jamia Millia Islamia

New Delhi, India.

www.ctp-jamia.res.in

All are welcome!

