

The University of Oxford

Final Honour School of Mathematical and Theoretical Physics Part C
Master of Science Mathematical and Theoretical Physics

String Theory I

Hilary Term 2018

Please write a report that explores some aspect or aspects of the broad topic below.

- Toroidal compactification of the bosonic string

For example, you might focus on: T -duality and its action on the moduli space of toroidal compactifications; special points in the moduli space of toroidal compactifications and non-Abelian gauge symmetry; D -branes in toroidal backgrounds. Your options are by no means limited to these suggestions.

Your report should be ten to fifteen pages in length, in an 11 point font, and the pages should have one inch margins. In your report you should indicate clearly what ideas come from existing sources and, if relevant, which are original. You should make attributions to all of your sources. The report should not be a mere repetition of material from the lectures or from standard textbooks, but should draw from multiple sources and synthesize it into a coherent exploration of the subject.

[Your report need not contain original research results, though you should use some original research papers (not just review articles or books) as resources.]