

# ELLIPTIC FUNCTIONS, CURVES, AND MODULAR FORMS

YOUNG JIN KIM

Elliptic functions are of an interest to many branches of mathematics. They have many fascinating properties, have deep connections with combinatorics and number theory, and even have a practical use in evaluating integrals and provide explicit solutions to certain differential equations. In this talk, we will introduce the concept of elliptic functions and explore some of their properties. This will give rise to a discussion about elliptic curves and their structure and through this, we aim to motivate an elementary introduction to the theory of modular forms.

