Some uses of moduli spaces in particle and field theory

TSOU Sheung Tsun

Mathematical Institute, Oxford University

24–29 St. Giles', Oxford OX1 3LB

United Kingdom.

tsou@maths.ox.ac.uk

Abstract

In this talk I shall try to give an elementary introduction to certain areas of mathematical physics where the idea of moduli space is used to help solve problems or to further our understanding. In the wide area of gauge theory, I shall mention instantons, monopoles and duality. Then, under the general heading of string theory, I shall indicate briefly the use of moduli space in conformal field theory and M-theory.

arXiv:hep-th/0001020v1   5 Jan 2000