

K-THEORETIC INTERSECTION THEORY OF THE MODULI OF CURVES

Speaker: Patrick Lei
Shanghai Center for Mathematical Sciences

Time：Fri, Nov 13th, 10:15 - 10:45
Venue: Room 106, SCMS

Abstract:

Mumford in his famous paper defined the tautological ring of the moduli space of curves. This object can be studied in either cohomology or Chow, and has been studied extensively. We can also refine (even) cohomology or Chow to K-theory to try to extract more refined geometric information. We will propose a definition of a tautological K-ring and discuss some of its properties.