The UIC Algebraic Geometry Seminar

GENERALIZATIONS OF THE CHERN-HIRZEBRUCH-SERRE FORMULA IN COMPLEX ALGEBRAIC GEOMETRY

LAURENTIU MAXIM
CUNY

The Chern-Hirzebruch-Serre signature theorem asserts that in the category of closed oriented manifolds the topological signature is multiplicative in fibrations with trivial monodromy action. In this talk I will survey various extensions of this result to the singular setting, including the so-called "stratified multiplicative property" for Hodge invariants of complex algebraic varieties. This is joint work with S. Cappell, A. Libgober and J. Shaneson.

SEO 636
Thursday, October 4th
4:30 p.m. [Please note special time]

http://www.math.uic.edu/~coskun/f2007alggeom.html