

Equivariant Chern character for coherent sheaves and Riemann-Roch-Grothendieck

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In this talk, we develop an equivariant theory of Chern characters for coherent sheaves on compact complex manifolds with finite group actions, taking values in Bott-Chern cohomology classes. Furthermore, we establish the corresponding Riemann-Roch-Grothendieck theorem.