

Cohomological rigidity on Fano generalized Bott manifolds

Seonjeong Park

A smooth Fano variety is a smooth projective variety X whose anti-canonical divisor $-K_X$ is ample. In this talk, we consider the conjecture that two smooth Fano toric varieties are isomorphic if there exists a c_1 -preserving isomorphism between their integral cohomology rings. I will introduce a partial affirmative result to the conjecture on Fano generalized Bott manifolds. This is joint work with Yunhyung Cho, Eunjeong Lee, and Mikiya Masuda.