IDEALS IN INFINITE-DIMENSIONAL POLYNOMIAL RING

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A pervasive theme in invariant theory is that of finite generation. Recently, much attention has been drawn toward studying the invariant ideals of infinite-dimensional polynomial ring. In this talk, I will introduce equivariantly Noetherian ring and equivariant Hilbert series used for studying the intrinsic behavior of certain ideals in infinite-dimensional polynomial rings. In particular, I will discuss the equivariant Hilbert series of Inc(N)-invariant monomial ideals with its connection to dimension theory.

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