



# **Nilpotent Orbits, Primitive Ideals, and Characteristic Classes: A Geometric Perspective in Ring Theory (Progress in Mathematics)**

*Walter Borho, J.-L. Brylinski, R. MacPherson*

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1. The Subject Matter. Consider a complex semisimple Lie group  $G$  with Lie algebra  $\mathfrak{g}$  and Weyl group  $W$ . In this book, we present a geometric perspective on the following circle of ideas: polynomials The "vertices" of this graph are some of the most important objects in representation theory. Each has a theory in its own right, and each has had its own independent historical development. - A nilpotent orbit is an orbit of the adjoint action of  $G$  on  $\mathfrak{g}$  which contains the zero element of  $\mathfrak{g}$  in its closure. (For the special linear group  $G = SL(n, \mathbb{C})$ , whose Lie algebra  $\mathfrak{g}$  is all  $n \times n$  matrices with trace zero, an adjoint orbit consists of all matrices with a given Jordan canonical form; such an orbit is nilpotent if the Jordan form has only zeros on the diagonal. In this case, the nilpotent orbits are classified by partitions of  $n$ , given by the sizes of the Jordan blocks.) The closures of the nilpotent orbits are singular in general, and understanding their singularities is an important problem. - The classification of irreducible Weyl group representations is quite old.

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