M. Arkowitz
C. R. Curjel

Groups of Homotopy Classes

Rank formulas and homotopy-commutativity

Springer

Groups Of Homotopy Classes Rank Formulas And Homotopy Commutativity

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introducing pro algebraic groups In char8teristic zero the situation is clear In characteristic different from zero information on finite group schemee is needed in order to handle group schemes this information can be found in work of GABRIEL In the second chapter these ideas of SERRE and GABRIEL are put together Also extension groups of elementary group schemes are determined A suggestion in a paper by MANIN gave crystallization to a fee11ng of symmetry concerning subgroups of abelian varieties In the third chapter we prove that the dual of an abelian scheme and the linear dual of a finite subgroup scheme are related in a very natural way Afterwards we became aware that a special case of this theorem was already known by CARTIER and BARSOTTI Applications of this duality theorem are the classical duality theorem duality hy pothesis proved by CARTIER and by NISHI calculation of Ext a A where A is an abelian variety result conjectured by SERRE a proof of the symmetry condition due to MANIN concerning the isogeny type of a formal group attached to an abelian variety   Groups of Homotopy Classes: Rank Formulas and Homotopy Commutative M. Arkowitz,C.R. Curjel,1967   *An Index and Other Useful Information* A. Dold,B. Eckmann,2013-12-11   Groups of Homotopy Classes Martin Arkowitz,1964 Many of the sets that one encounters in homotopy classification problems have a natural group structure Among these are the groups A nX of homotopy classes of maps of a space A into a loop space nx Other examples are furnished by the groups y of homotopy classes of homotopy equivalences of a space Y with itself The groups A nX and Y are not necessarily abelian It is our purpose to study these groups using a numerical invariant which can be defined for any group This invariant called the rank of a group is a generalisation of the rank of a finitely generated abelian group It tells whether or not the groups considered are finite and serves to distinguish two infinite groups We express the rank of subgroups of A nX and of C Y in terms of rational homology and homotopy invariants The formulas which we obtain enable us to compute the rank in a large number of concrete cases As the main application we establish several results on commutativity and homotopy commutativity of H spaces Chapter 2 is purely algebraic We recall the definition of the rank of a group and establish some of its properties These facts which may be found in the literature are needed in later sections Chapter 3 deals with the groups A nx and the homomorphisms f B n l A nx induced by maps f A B We prove a general theorem on the rank of the intersection of coincidence subgroups Theorem 3 3   Reviews of Papers in Algebraic and Differential Topology, Topological Groups, and Homological Algebra Norman Earl Steenrod,1968   *Journal of the Mathematical Society of Japan* Nihon Sūgakkai,2008   Mathematical Reviews ,2001   **Nieuw Archief Voor Wiskunde** ,1969   Transactions of the American Mathematical Society ,1973   International Books in Print, 1995 Barbara Hopkinson,[Anonymus AC01401231],1995   数理科学文献目録 ,1974   **Revue roumaine de mathématiques pures et appliquées** ,1966   *Notices of the American Mathematical Society* American Mathematical Society,1979   数理科学 文献目錄国内(Japan),1966   **Author Catalogue of Printed Books in English Language: A** National Library (India),1991   **The Cumulative Book Index** ,1965 A world list of books in the English language   Library of Congress Catalog Library of Congress,1970 A cumulative list of works represented by Library of

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