1. Record Nr. UNINA9910484282703321 Autore Isaev Alexander Titolo Lectures on the automorphism groups of Kobayashi-hyperbolic manifolds / / Alexander Isaev Pubbl/distr/stampa Berlin; ; Heidelberg; ; New York: ,: Springer, , [2007] ©2007 **ISBN** 1-280-80490-4 9786610804900 3-540-69153-7 Edizione [1st ed. 2007.] Descrizione fisica 1 online resource (148 p.) Lecture notes in mathematics (Springer-Verlag);; 1902 Collana Disciplina 516.9 Soggetti Hyperbolic spaces Automorphisms Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto The Homogeneous Case -- The Case d(M) = n2 -- The Case d(M) = n2- 1, n ? 3 -- The Case of (2,3)-Manifolds -- Proper Actions. Sommario/riassunto Kobayashi-hyperbolic manifolds are an object of active research in complex geometry. In this monograph the author presents a coherent exposition of recent results on complete characterization of Kobayashihyperbolic manifolds with high-dimensional groups of holomorphic automorphisms. These classification results can be viewed as complexgeometric analogues of those known for Riemannian manifolds with high-dimensional isotropy groups, that were extensively studied in the 1950s-70s. The common feature of the Kobayashi-hyperbolic and

Riemannian cases is the properness of the actions of the holomorphic automorphism group and the isometry group on respective manifolds.