

1. Record Nr.	UNINA9910817398603321
Autore	Kollar Janos
Titolo	Singularities of the minimal model program // Janos Kollar, Princeton University ; with the collaboration of Sandor Kovacs, University of Washington [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2013
ISBN	1-107-23846-3 1-107-31478-X 1-107-30923-9 1-107-30703-1 1-107-31258-2 1-107-30598-5 1-139-54789-5 1-299-40318-2 1-107-30194-7
Descrizione fisica	1 online resource (x, 370 pages) : digital, PDF file(s)
Collana	Cambridge tracts in mathematics ; ; 200
Classificazione	MAT038000
Disciplina	516.3/5
Soggetti	Singularities (Mathematics) Algebraic spaces
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface -- Introduction -- Preliminaries -- Canonical and log canonical singularities -- Examples -- Adjunction and residues -- Semi-log-canonical pairs -- Du Bois property -- Log centers and depth -- Survey of further results and applications -- Finite equivalence relations -- Ancillary results.
Sommario/riassunto	This book gives a comprehensive treatment of the singularities that appear in the minimal model program and in the moduli problem for varieties. The study of these singularities and the development of Mori's program have been deeply intertwined. Early work on minimal models relied on detailed study of terminal and canonical singularities but many later results on log terminal singularities were obtained as consequences of the minimal model program. Recent work on the

abundance conjecture and on moduli of varieties of general type relies on subtle properties of log canonical singularities and conversely, the sharpest theorems about these singularities use newly developed special cases of the abundance problem. This book untangles these interwoven threads, presenting a self-contained and complete theory of these singularities, including many previously unpublished results.
