
Contents

Part I Corrado Segre' Leadership: From Turin to the International Scene

Segre's University Courses and the Blossoming of the Italian School of Algebraic Geometry	3
Alberto Conte and Livia Giacardi	
Corrado Segre and His Disciples: the Construction of an International Identity for the Italian School of Algebraic Geometry	93
Erika Luciano and Clara Silvia Roero	
Segre, Klein, and the Theory of Quadratic Line Complexes	243
David E. Rowe	
Segre and the Foundations of Geometry: From Complex Projective Geometry to Dual Numbers	265
Aldo Brigaglia	
Segre, Castelnuovo, Enriques: Missing Links	289
Paola Gario	
Corrado Segre: Biographical Timeline	325
Livia Giacardi	

Part II Perspectives on Segre's Legacy

Algebraic Elements of the Cremona Groups	351
J��r��my Blanc	
Segre Functions in Multiprojective Spaces and Tensor Analysis	361
Luca Chiantini and Duccio Sacchi	
Cremona Linearizations of Some Classical Varieties	375
Ciro Ciliberto, Maria Angelica Cueto, Massimiliano Mella, Kristian Ranestad and Piotr Zwiernik	

An Account of Instanton Bundles on Hyperquadrics	409
Laura Costa, Rosa M. Miró-Roig and Joan Pons-Llopis	
Corrado Segre and Nodal Cubic Threefolds	429
Igor Dolgachev	
Godeaux Surfaces with an Enriques Involution and Some Stable Degenerations	451
Margarida Mendes Lopes and Rita Pardini	
Geometry of Lines and Degeneracy Loci of Morphisms of Vector Bundles	475
Emilia Mezzetti	
Corrado Segre, Guido Castelnuovo and the Riemann-Roch Theorem	485
Edoardo Sernesi	
 Part III The Unpublished Notebook of Corrado Segre on Geometry on Simply Infinite Algebraic Entities (1890–1891)	
Introduction to the Handwritten Notebook on Geometry on Simply Infinite Algebraic Entities (1890–91)	499
Alberto Conte	
Lezioni di Geometria Superiore 1890–91 Introduzione alla Geometria sugli Enti Algebrici Semplicemente Infiniti	505
Corrado Segre	
Appendix 1: Corrado Segre’s Archives at the University of Turin	717
Appendix 2: Bibliography of the Works by Corrado Segre	731
Name Index	745

From Classical to Modern Algebraic Geometry

Corrado Segre's Mastership and Legacy

Casnati, G.; Conte, A.; Gatto, L.; Giacardi, L.; Marchisio, M.; Verra, A. (Eds.)

2016, XVI, 756 p. 20 illus., 8 illus. in color., Hardcover

ISBN: 978-3-319-32992-5

A product of Birkhäuser Basel