

Contents

Introduction	vii
Categorical representability and intermediate Jacobians of Fano threefolds	
<i>Marcello Bernardara and Michele Bolognesi</i>	1
Fourier–Mukai functors: a survey	
<i>Alberto Canonaco and Paolo Stellari</i>	27
Flops and about: a guide	
<i>Sabin Cautis</i>	61
A note on derived categories of Fermat varieties	
<i>Akira Ishii and Kazushi Ueda</i>	103
Homology of infinite loop spaces	
<i>Dmitry Kaledin</i>	111
Cluster algebras and derived categories	
<i>Bernhard Keller</i>	123
Some derived equivalences between noncommutative schemes and algebras	
<i>Izuru Mori</i>	185
Lagrangian-invariant sheaves and functors for abelian varieties	
<i>Alexander Polishchuk</i>	197
Generic vanishing filtrations and perverse objects in derived categories of coherent sheaves	
<i>Mihnea Popa</i>	251
The fundamental group is not a derived invariant	
<i>Christian Schnell</i>	279
Introduction and open problems of Donaldson–Thomas theory	
<i>Yukinobu Toda</i>	287

Notes on formal deformations of abelian categories <i>Michel Van den Bergh</i>	319
List of Contributors	345