Contents

Preface ix

List of conference talks xi

List of participants xiii

Some properties of the Thom spectrum over loop suspension of complex projective space
A. Baker and B. Richter 1

Rational equivariant rigidity
D. Barnes and C. Roitzheim 13

Homotopy colimits of model categories
J. E. Bergner 31

The cobordism category and Waldhausen's K-theory
M. Bökstedt and I. Madsen 39

Idempotents, localizations and Picard groups of $\mathcal{A}(1)$-modules
R. R. Bruner 81

Covers of groups
W. Chachólski 109

A relative h-principle via cobordism-like categories
E. Dotto 133

Absolutely homotopy-cartesian squares
R. Eldred 157

Koszul duality complexes for the cohomology of iterated loop spaces of spheres
B. Fresse 165

Periodicity, compositions and EHP sequences
B. Gray 189

Non-connective K- and Nil-spectra of additive categories
W. Lück and W. Steimle 205

$H_\infty \neq E_\infty$
J. Noel 237

Calculating descent for 2-primary topological modular forms
V. Stojanoska 241

Applications of functor (co)homology
A. Touzé 259

Constructing homotopy equivalences of chain complexes of free $\mathbb{Z}G$-modules
L. Vokřínek 279