

Papers for the Kan Seminar (Northwestern, Spring 2012)

- 1951 J.-P. Serre, *Homologie singulière des espaces fibrés. I, Applications*, Annals of Mathematics **54** (1951) 425–505.
- 1953 J.-P. Serre, *Cohomologie modulo 2 des complexes d'Eilenberg-MacLane*, Commentarii Mathematici Helvetici **27** (1953) 198–232.
- 1953 A. Borel, *La cohomologie mod 2 de certains espaces homogènes*, Commentarii Mathematici Helvetici **27** (1953) 165–197.
- 1954 R. Thom, *Quelques propriétés globales des variétés différentiables*, Commentarii Mathematici Helvetici **28** (1954) 17–86.
- 1955 P. J. Hilton, *On the homotopy groups of the union of spheres*, Journal of the London Mathematical Society **30** (1955) 154–172.
- 1956 J. W. Milnor, *On manifolds homeomorphic to the 7-sphere*, Annals of Mathematics **64** (1956) 399–405.
- 1958 A. Dold, *Homology of symmetric products and other functors of complexes*, Annals of Mathematics **68** (1958) 54–80.
- 1958 J. Milnor, *The Steenrod algebra and its dual*, Annals of Mathematics **67** (1958) 150–171.
- 1960 M. Nakaoka, *Decomposition theorem for homology groups of symmetric groups*, Ann. of Math. (2) **71** (1960) 16–42.
- 1960 J. F. Adams, *On the non-existence of elements of Hopf invariant one*, Annals of Mathematics **72** (1960) 20–104.
- 1960 M. A. Kervaire, *A manifold which does not admit any differentiable structure*, Commentarii Mathematici Helvetici **34** (1960) 257–270.
- 1960 J. Milnor, *On the cobordism ring Ω^* and a complex analogue. I*, Amer. J. Math. **82** (1960) 505–521.
- 1961 M. F. Atiyah and F. Hirzebruch, *Charakteristische Klassen und Anwendungen*, Enseignement Math. (2) **7** (1961) 188–213.
- 1962 H. Toda, *Composition methods in homotopy groups of spheres*, Annals of Mathematics Studies, No. **49** Princeton University Press, Princeton, N.J. 1962.
- 1962 E. H. Brown, Jr., *Cohomology theories*, Annals of Mathematics **75** (1962) 467–484.
- 1963 M. A. Kervaire and J. W. Milnor, *Groups of homotopy spheres, I*, Annals of Mathematics **77** (1963) 504–537.

- 1965 C. T. C. Wall, *Finiteness conditions for CW-complexes*, Annals of Mathematics **81** (1965) 56–69.
- 1966 J. F. Adams, *On the groups $J(X)$ – IV*, Topology **5** (1966) 21–71.
- 1966 J. F. Adams and M. F. Atiyah, *K-theory and the Hopf invariant*, The Quarterly Journal of Mathematics, Oxford **17** (1966) 31–38.
- 1967 D. G. Quillen, *Homotopical algebra*, Springer Lecture Notes in Mathematics **43**, 1967.
- 1968 G. Segal, *Classifying spaces and spectral sequences*, Institut des Hautes Études Scientifique Publications Mathématiques **34** (1968) 105–112.
- 1968 G. Segal, *Equivariant K-theory*, Inst. Hautes tudes Sci. Publ. Math. No. **34** (1968) 129–151.
- 1969 D. G. Quillen, *Rational homotopy theory*, Ann. of Math. (2) **90** (1969) 205–295.
- 1969 D. G. Quillen, *On the formal group laws of unoriented and complex cobordism theory*, Bull. Amer. Math. Soc. **75** (1969) 1293–1298.
- 1970 D. G. Quillen, *On the (co-)homology of commutative rings*. 1970 Applications of Categorical Algebra (Proc. Sympos. Pure Math., Vol. XVII, New York, 1968) pp. 65–87. Amer. Math. Soc., Providence, R.I.
- 1971 D. G. Quillen, *The Adams conjecture*, Topology **10** (1971) 67–80.
- 1971 D. G. Quillen, *The spectrum of an equivariant cohomology ring. I*, Annals of Mathematics **94** (1971) 549–572.
- 1972 E. Dror, *Acyclic spaces*, Topology **11** (1972) 339–348.
- 1972 J. P. May, *The geometry of iterated loop spaces*, Springer Lectures Notes in Math. **271**, 1972.
- 1972 D. G. Quillen, *On the cohomology and K-theory of the general linear groups over a finite field*, Annals of Mathematics **96** (1972) 552–586.
- 1973 D. G. Quillen, *Higher algebraic K-theory I*, Algebraic K-theory I, Battelle Institute Conference 1972, Springer Lecture Notes in Math. **341** (1973) 85–147.
- 1973 G. Nishida, *The nilpotency of elements of the stable homotopy groups of spheres*, Journal of the Mathematical Society of Japan **25** (1973), 707–732.
- 1974 T. A. Chapman, *Topological invariance of Whitehead torsion*, Amer. J. Math. **96** (1974), 488–497.
- 1974 D. Sullivan, *Genetics of homotopy theory and the Adams conjecture*, Ann. of Math. (2) **100** (1974), 1–79.

- 1975 A. K. Bousfield, *The localization of spaces with respect to homology*, *Topology* **14** (1975), 133–150.
- 1975 J. C. Becker and D. H. Gottlieb, *The transfer map and fiber bundles*, *Topology* **14** (1975) 1–12.
- 1976 P. S. Landweber, *Homological properties of comodules over $MU_*(MU)$ and $BP_*(BP)$* , *Amer. J. Math.* **98** (1976), no. 3, 591–610.
- 1980 M. Goresky and R. MacPherson, *Intersection homology theory*, *Topology* **19** (1980) 135–162.
- 1980 D. C. Ravenel and S. W. Wilson, *The Morava K -theories of Eilenberg-MacLane spaces and the Conner-Floyd conjecture*, *Amer. J. Math.* **102** (1980), no. 4, 691–748.
- 1984 D. C. Ravenel, *Localization with respect to certain periodic homology theories*, *Amer. J. Math.* **106** (1984), no. 2, 351–414.
- 1984 H. Miller, *The Sullivan conjecture on maps from classifying spaces*, *Ann. of Math. (2)* **120** (1984), no. 1, 39–87.
- 1985 F. Waldhausen, *Algebraic K -theory of spaces*, *Algebraic and geometric topology (New Brunswick, N.J., 1983)*, *Lecture Notes in Math.* **1126** (1985) 318–419.
- 1986 E. Witten, *The index of the Dirac operator in loop space. Elliptic curves and modular forms in algebraic topology (Princeton, NJ, 1986)*, 161–181, *Lecture Notes in Math.*, **1326**, Springer, Berlin, 1988.
- 1998 M. J. Hopkins and J. H. Smith, *Nilpotence and stable homotopy theory. II*, *Ann. of Math.* **148** (1998) 1–49.
- 2000 M. J. Hopkins, N. J. Kuhn and D. C. Ravenel, *Generalized group characters and complex oriented cohomology theories*, *J. Amer. Math. Soc.* **13** (2000), no. 3, 553–594.
- 2003 T. G. Goodwillie, *Calculus III: Taylor series*. *Geom. Topol.* **7** (2003), 645–711.
- 2006 D. P. Sullivan, *Geometric topology: localization, periodicity and Galois symmetry. The 1970 MIT notes*. Edited and with a preface by Andrew Ranicki. *K-Monographs in Mathematics*, **8**. Springer, Dordrecht, 2005.