

Suggested Papers for M397S

This list is subject to change and in any case is only a list of suggestions. I am welcome to your suggestions.

- 1944** Chern, Shiing-shen, *A simple intrinsic proof of the Gauss-Bonnet formula for closed Riemannian manifolds*. Ann. of Math. (2) 45, (1944). 747–752.
- 1951** Serre, J. P., *Homologie singulière des espaces fibrés. I, Applications*, Annals of Mathematics 54 (1951) 425–505.
- 1953** Borel, A., *La cohomologie mod 2 de certains espaces homogènes*, Commentarii Mathematici Helvetici 27 (1953) 165–197.
- 1954** Thom., R., *Quelques propriétés globales des variétés différentiables*, Commentarii Mathematici Helvetici 28 (1954) 17–86.
- 1955** Serre, Jean-Pierre, *Géométrie algébrique et géométrie analytique*. (French) Ann. Inst. Fourier, Grenoble 6 (1955–1956), 1–42.
- 1956** Milnor, J. W. , *On manifolds homeomorphic to the 7-sphere*, Annals of Mathematics 64 (1956) 399–405.
- 1957** Chern, S. S.; Hirzebruch, F.; Serre, J.-P., *On the index of a fibered manifold*. Proc. Amer. Math. Soc. 8 (1957), 587–596.
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- 1958** Dold., A, *Homology of symmetric products and other functors of complexes*, Annals of Mathematics 68 (1958) 54–80.
- 1958** Borel, Armand; Serre, Jean-Pierre, *Le théorème de Riemann-Roch*. (French) Bull. Soc. Math. France 86 (1958) 97–136.
- Borel, A.; Hirzebruch, F. *Characteristic classes and homogeneous spaces. I*. Amer. J. Math. 80 (1958) 458–538.
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- 1959** Bott, Raoul. *The stable homotopy of the classical groups*. Ann. of Math. (2) 70 (1959) 313–337.
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- 1960** Adams, J. F. , *On the non-existence of elements of Hopf invariant one*, Annals of Mathematics 72 (1960) 20–104.
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- 1961** Mumford, David, *The topology of normal singularities of an algebraic surface and a criterion for simplicity*. Inst. Hautes Études Sci. Publ. Math. No. 9 (1961) 5–22.
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- 1962** Brown, E. H. Jr., *Cohomology theories*, Annals of Mathematics 75 (1962) 467–484.
- 1963** Kervaire, M. A. and Milnor, J. W. , *Groups of homotopy spheres I.* , Annals of Mathematics 77 (1963) 504–537.
- 1964** Atiyah, M. F.; Bott, R.; Shapiro, A., *Clifford modules*. Topology 3 (1964) suppl. 1, 3–38.
- 1965** Wall, C. T. C. , *Finiteness conditions for CW-complexes*, Annals of Mathematics 81 (1965) 56–69.
- Moser, Jürgen, *On the volume elements on a manifold*, Trans. Amer. Math. Soc. 120 (1965) 286–294.
- 1966** Adams, J. F. , *On the groups $J(X)$. IV*, Topology 5 (1966) 21–71.
- Adams, J. F. and Atiyah, M. F. , *K-theory and the Hopf invariant*, The Quarterly Journal of Mathematics, Oxford 17 (1966) 31–38.
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- 1967** Bott, Raoul, *Vector fields and characteristic numbers*. Michigan Math. J. 14 (1967) 231–244.
- 1968** Atiyah, M. F.; Singer, I. M., *The index of elliptic operators. I*. Ann. of Math. (2) 87 (1968) 484–530
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- 1969** Deligne, P.; Mumford, D., *The irreducibility of the space of curves of given genus*. Inst. Hautes Études Sci. Publ. Math. No. 36 (1969) 75–109.
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- 1973** Atiyah, M.; Bott, R.; Patodi, V. K., *On the heat equation and the index theorem*. Invent. Math. 19 (1973), 279–330.
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- 1992** Kontsevich, Maxim, *Intersection theory on the moduli space of curves and the matrix Airy function*. Comm. Math. Phys. 147 (1992), no. 1, 1–23.
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- 1996** Gross, Benedict H., *On the Satake isomorphism*. Galois representations in arithmetic algebraic geometry (Durham, 1996), 223–237, London Math. Soc. Lecture Note Ser., 254, Cambridge Univ. Press, Cambridge, 1998.
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- 2004** Segal, Graeme, *The definition of conformal field theory*. Topology, geometry and quantum field theory, 421–577, London Math. Soc. Lecture Note Ser., 308, Cambridge Univ. Press, Cambridge, 2004.