Bibliography of Leonard Scott

1. Uniprimitive permutation groups, Theory of Finite Groups (R. Brauer and C. Sah, eds.), W. A. Benjamin, Inc., 1969, pp. 55-62.

2. Concerning the degrees of irreducible characters, Abstract: Notices AMS, January 1969, 98 (with G. Keller).

3. A double transitivity criterion, Math. Z. 115 (1970), 7-8.

4. The modular theory of permutation representations, Proc. of Symposia in Pure Math. XXI (1971), 137-144.

5. Blocks and subgroups, J. of Algebra 20 (1972), 630-636 (with I. M. Issacs).

6. On permutation groups of degree 2p, Math. Z. 126 (1972), 227-229.

7. Modular permutation representations, Trans. AMS 175 (1973), 101-121.

8. A condition on Higman's parameters, Abstract: Notices AMS, January 1973, A-97.

9. Cohomology of finite groups of Lie type I, Publ. Math. IHES no. 45 (1975), 169-191 (with E. Cline and B. Parshall).

10. Estimates in permutation groups, Geometriae Dedicata 5 (1976), 219-227.

11. Uniprimitive groups of degree 3p, preliminary announcement appeared in [1] (with P. M. Neumann and Olaf Tamaschke).

12. Some properties of character products, J. of Algebra 45 (1977), 259-265.

13. Translation of Representation lineaires des groupes finis by J. P. Serre, Springer-Verlag, GTM 42 (1977).

14. Minimal elements of N(H : p) and Levi complements, J. of Algebra 34 (1975), 521-523 (with E. Cline and B. Parshall).

15. A remark on permutations, J. of comb. Theory 18 (175), 234-235 (with W. Feit and R. Lyndon).

16. Permutation modules and 1-cohomology, Arch. of Math. 27 (1976), 362-368.

17. Cohomology of finite groups of Lie type II, J. of Algebra 45 (1977), 182-198 (with E. Cline and B. Parshall).

18. The n, 2n problem of Michael Fried, Abstract appears in Proceedings of the (Park City) Conference on Finite Groups (1975), 471-475 (with P. M. Neumann).

19. Failure of Nielsen's Theorem in higher dimensions, Arch. of Math. 29 (1977), 643-654 (with F. Raymond).

20. Induced modules and affine quotients, Math. Annalen 230 (1977), 1-14 (with E. Cline and B. Parshall).

21. Matrices and cohomology, Annals of Math. 105 (1977), 473-492.

22. Rational and generic cohomology, Inventiones Math. 39 (1977), 143-163 (with E. Cline, B. Parshall, and W. van der Kallen).

23. Cohomology, hyperalgebras, and representations, J. of Algebra 63 (1980), 98-123 (with E. Cline and B. Parshall).

24. Induced modules and extensions of representations, Inventiones Math. 47 (1978), 41-51 (with E. Cline and B. Parshall).

25. A problem of W. A. Manning on primitive permutation groups, Math. Z. 161 (1978), 97-100 (with D. Goldschmidt).

26. Induced modules and extensions of representations II, J. of London Math. Soc. (2) 20 (1979), 403-414 (with E. Cline and B. Parshall).

27. On the tensor product theorem for algebraic groups, J. of Algebra 63 (1980), 264-267 (with E. Cline and B. Parshall).

28. An imprimitivity theory for algebraic groups, Indag. Math. 42 (1980), 39-47 (with B. Parshall).

29. Representations of characteristic p, Proceedings of Symposia in Pure Math. of the AMS 37 (1980), 319-331.

30. Intersecting conjugate orbits in permutations groups, unpublished manuscript (with D. Newhart).

31. Hecke actions on Picard groups, J. of Pure and Applied Alg. 26 (1982), 85-100 (with K. Roggenkamp).

32. Units in metabelian group rings: nonsplitting examples, J. Pure and Appl. Alg. 27 (1983), 299-314. First announced in C. R. Math. Rep. Math. Sci. Canada III, no. 1 (1981), 29-32. (with K. Roggenkamp).

33. Quillen stratification for modules, Inventiones Math. 66 (1982), 277-286. First announced in Bull. AMS 6, no. 1 (1982), 75-78 (with G. Avrunin).

34. A Mackey imprimitivity theory for algebraic groups, Math. Z. 182 (1983), 447–471 (with E. Cline and B. Parshall).

35. Maximal subgroups of finite groups, J. of Algebra 92 (1985), 44-80 (with M. Aschbacher).

36. Detecting rational cohomology for algebraic groups, J. LMS (2) 28 (1983), 293-300 (with E. Cline and B. Parshall).

37. Units in group rings: splittings and the isomorphism problem, J. of Alg. 96 (1985), 397-417 (with K. Roggenkamp).

38. On injective modules of infinitesimal algebraic groups, J. LMS (2) 31 (1985), 277-291 (with E. Cline and B. Parshall).

39. Isomorphisms of p-adic group rings, Annals of Math. 126 (1987), 593-647 (with K. Roggenkamp).

40. Derived categories and Morita theory, J. of Algebra 104 (1986), 397-409 (with E. Cline and B. Parshall).

41. Algebraic stratification of representation categories, J. of Algebra 117 (1988), 504-521 (with E. Cline and B. Parshall).

42. The isomorphism problem for finite nilpotent groups, Proceedings of Groups - St. Andrews '85, LMSLNS 121, Cambridge Univ. Press, 1986. (with K. Roggenkamp).

43. Recent progress on the isomorphism problem, Proceedings of Symposia in Pure Mathematics 47 (1987), 259-273.

44. Simulating algebraic geometry with algebra, I: the algebraic theory of derived categories, Proceedings of Symposia in Pure Mathematics 47 (1987), 271-281.

45. Finite dimensional algebras and highest weight categories, J. Reine u. angew. Math. (Crelle's Journal) 391 (1988), 85-91 (with E. Cline and B. Parshall).

46. A strong answer to the isomorphism problem for some finite group rings, 47 pp. preprint, in revision, originally circulated as a joint preprint with K. Roggenkamp under a slightly different title.

47. Derived categories, quasi-hereditary algebras and algebraic groups, Proceedings of the Ottawa-Moosonee conference, Carleton University, 1988, 1-105 (with B. Parshall).

48. Derived categories and algebraic groups, Contemporary Math. 82 (1989), 127-142.

49. Duality in highest weight categories, Contemporary Math. 82, 7-22 (with E. Cline and B. Parshall).

50. On a conjecture of Zassenhaus for finite group rings, 60 pp. circulated but un-published manuscript, 1988 ((with K. Roggenkamp). See the 1992 paper 'On a conjecture of Zassenhaus and beyond' for a summary.

51. Defect groups and the isomorphism problem, Astérisque, No. 181-182 (1990), 257-262.

52. Integral and graded quasi-hereditary algebras, I, J. Algebra, 131 (1990), 126-160 (with E. Cline and B. Parshall).

53. Automorphisms and nonabelian cohomology, an algorithm, Computational linear algebra in algebraic and related problems (Essen, 1992). 192 (1993), 355-382 (with K. Roggenkamp).

54. Tensor products and Brauer homomorphisms, unpublished manuscript, 30 pp. (with J. Du).

55. Abstract Kazhdan-Lusztig theory, Tohoku Journal 45 (1993), 511-534 (with E. Cline and B. Parshall).

56. On a conjecture of Zassenhaus and beyond, Contemp. Math. 131 (1992), 325-343.

57. Lusztig conjectures, old and new, I, J. Reine u. andgew. Math. (Crelle's Journal) 455 (1994), 141-182 (with J. Du).

58. Simulating perverse sheaves in modular representation theory, I, Proc. Symp. Pure Math. 56 (1994), 63-104 (with E. Cline and B. Parshall).

59. Infinitesimal Kazhdan-Lusztig theory, Contemp. Math. 139 (1992), 43-73. (with E. Cline and B. Parshall).

60. The homological dual of a highest weight category, Proc. London Math. Soc. (3) 68 (1994), 294-316 (with E. Cline and B. Parshall).

61. Group Rings: Units and the Isomorphism Problem, in Group Rings and Class Groups, Birkhauser (1992), 2-152 (with K. Roggenkamp).

62. Integral equivalence of permutation representations, Group theory (Granville, OH, 1992), 262-274, World Sci. Publishing, River Edge, NJ, 1993 (in large part a delayed publication of an older manuscript, dating from 1971, and previously listed as work #11).

63. Koszul algebras and the Frobenius endomorphism, (with B. Parshall), Koszul algebras and the Frobenius automorphism. Quart. J. Math. Oxford Ser. (2) 46 (1995), no. 183, 345-384.

64. Quasihereditary algebras and algebraic groups, Finite Dimensional Algebras and Related Topics, edited by V. Dlab and L. Scott, Kluwer Scientific Publishers, 1994, 293-308.

65. Appendix to Exact Borel subalgebras of Quasihereditary algebras, I, by Steffen König, Math. Z. 220 (1995), 421-425 (for corrections, see the 1998 manuscript, joint with B.Parshall and J.-p.Wang, entitled 'Borel subalgebras redux, with applications to algebraic an quantum groups').

66. Graded and non-graded Kazhdan-Lusztig theories (with E. Cline and B. Parshall), in Australian Math. Soc. Lecture Series: Algebraic groups and related subjects: a volume in honor of R. W. Richardson, 1996, 100-120.

67. Stratifying endomorphism algebras, Mem. Amer. Math. Soc. 124 (1996), no. 591, viii+119 pp. (with E. Cline and B. Parshall).

68. Are all groups finite? Representation Theory of Finite Groups, Proceedings of a Special Research Quarter at the The Ohio State University, Spring 1995, R. Solomon (Ed.), pp. 133-148, Walter de Gruyter, Berlin - New York 1997.

69. The $q - Schur^2$-algebra, Transactions AMS 352 (2000), no. 9, 4325-4353 (with J. Du).

70. Stratifying endomorphism algebras associated to Hecke algebras, J. Algebra 203 (1998), no. 1, 169-210 (with J. Du and B. Parshall)..

71. Cells and q-Schur algebras, Transform. Groups 3 (1998), no. 1, 33-49 (with J. Du and B. Parshall).

72. Quantum Weyl reciprocity and tilting modules, Comm. Math, Physics 195 (1998)2, 321-352 (with J. Du and B. Parshall).

73. Stratifying q-Schur algebras of type D. Representations and quantizations (Shanghai, 1998), 167-197, China High. Educ. Press, Beijing, 2000 (with J. Du).

74. Linear and nonlinear group actions, and the Newton Institute program, Algebraic groups and their representations, Proceedings of the 1997 Newton Institute conference on representations of finite and related algebraic groups, edited by R. Carter and J. Saxl, Kluwer Scientific, 1998, 1-23 (lead survey article).

75. Endomorphism algebras and representation theory, Algebraic groups and their representations, Proceedings of the 1997 Newton Institute conference on representations of finite and related algebraic groups, edited by R. Carter and J. Saxl, Kluwer Scientific, 1998, 131-150 (with E. Cline and B. Parshall).

76. Generic and q-rational representation theory, Pulbl. RIMS Kyoto 35(1), (1999), 31-90 (with E. Cline and B. Parshall).

77. Borel subalgebras redux, with applications to algebraic and quantum groups, Algebras and representation theory 3 (2000), no. 3, (with B. Parshall and J.-p. Wang).

78. Witt vectors and affine Lie algebras. Representations and quantizations (Shanghai, 1998), 57-87, China High. Educ. Press, Beijing, 2000 (with E. Cline and B. Parshall).

79. Modular representation theory of finite groups. Proceedings of the symposium held at the University of Virginia, Charlottesville, VA, May 8-15, 1998. Edited by Michael J. Collins, Brian J. Parshall and Leonard L. Scott. Walter de Gruyter & Co., Berlin, 2001. xii+262 pp. ISBN: 3-11-016367-5

80. Some new examples in 1-cohomology. Special issue celebrating the 80th birthday of Robert Steinberg. J. Algebra 260 (2003), no. 1, 416-425.

81. On Ext-transfer for algebraic groups. Transform. Groups 9 (2004), no. 3, 213-236 (with E. Cline and B. Parshall).

82. Quantum Weyl reciprocity for cohomology. Proc. London Math. Soc. (3) 90 (2005), no. 3, 655-688 (with B. Parshall).

83. Walter Feit (1930-2004). Notices Amer. Math. Soc. 52 (2005), no. 7, 728-735 (with Ronald Solomon, John Thompson, John Walter, and Efim Zelmanov).

84. Infinite-dimensional aspects of representation theory and applications. Papers from the International Conference held at the University of Virginia, Charlottesville, VA, May 18-22, 2004. Edited by Stephen Berman, Brian Parshall, Leonard Scott and Weiqiang Wang. Contemporary Mathematics, 392. American Mathematical Society, Providence, RI, 2005. viii+154 pp. ISBN: 0-8218-3701-X

85. Extensions, Levi subgroups and character formulas. J. Algebra 319 (2008), no. 2, 680-701 (with B. Parshall).

86. The mathematics of Donald Gordon Higman. Michigan Math. J. 58 (2009), no. 1, 3-30 (with Eiichi Bannai, Robert L. Griess, Jr., and Cheryl Praeger).

87. Semistandard filtrations in highest weight categories. Michigan Math. J. 58 (2009), no. 1, 339-360.

88. Reduced standard modules and cohomology. Trans. Amer. Math. Soc. 361 (2009), no. 10, 5223-5261 (with E. Cline and B. Parshall).

89. Some new highest weight categories. Representation theory, 145-154, Contemp. Math. 478, Amer. Math. Soc., Providence, RI, 2009 (with B. Parshall).

90. Some Z/2-graded representation theory. Q. J. Math. 60 (2009), no. 3, 327-351 (with B. Parshall).

91. Some Non-Trivial Kazhdan-Lusztig Coefficients of an Affine Weyl Group of Type $\tilde{A}_n$, Sci. China Math. 53 (2010), no. 8, 1919-1930. (with Nanhua Xi)

92. Bounding Ext for modules for modules for algebraic groups, finite groups and quantum groups, Advances in Math. 226, no. 3 (2011), 2065-2088 (with Brian Parshall)

93. Variations on a theme of Cline and Donkin, Algebras and Representaion theory, **16** (2013), 793–817. doi: 10.1007/s10468-011-9332-0 (with Brian Parshall)

94. Cohomological growth rates and Kazhdan-Lusztig polynomials, *Israel J. Math.* **191** (2012), 85–110. doi: 10.1007/s11856-011-0200-8 (with Brian Parshall)

95. A new approach to the Koszul property in representation theory using graded subalgebras, J. Inst. Math. Jussieu 12 (2013), 153-197. doi:10.1017/S1474748012000679 (with Brian Parshall)

96. A semisimple series for q-Weyl and q-Specht modules, Proceedings of Symposia in Pure Mathematics 86 (2012), 277-310 (with Brian Parshall)

97. Forced gradings in integral quasi-hereditary algebras with applications to quantum groups, Proceedings of Symposia in Pure Mathematics 86 (2012), 247-276 (with Brian Parshall)

98. Shifted generic cohomology, Shifted generic cohomology, Compositio Math., in press, 24pp. doi:10.1112/S0010437X13007331 (with Brian Parshall and David Stewart)

99. Bounding cohomology for finite groups and Frobenius kernels, submitted (2012), 22 pp., formerly titled Bounding extensions for finite groups and Frobenius kernels, arXiv:1208.6333 (with C. Bendel, D. Nakano, B. Parshall, C. Pillen, and D. Stewart)

100. p-Filtrations of Weyl modules, submitted (2012), 20 pp. arXiv:1208.3221v3 (with Brian Parshall)

101. New graded methods in the homological algebra of semisimple algebraic groups, 48 pp. arXiv:1304.1461v2 (with Brian Parshall)

102. Some Koszul properties of standard and irreducible modules, 23pp. arXiv:1305.6274 (with Brian Parshall)

103. Truncation and the induction theorem, 10pp. arXiv:1309.7241 (with Terrell Hodge and Paramasmy Karuppuchamy)

104. Computing individual Kazhdan-Lusztig basis elements, 7pp. arXiv:1309.7265 (withTimothy Sprowl)