

## M.-A. Knus, List of Publications

1. Sur une classe d'algèbres filtrées. *Comm. Helv. Math.* 42 (1967), 111-132.
2. (with U. Stambach) Anwendungen der Homologietheorie der Liealgebren auf Zentralreihen und auf Präsentierungen, *Comm. Hel. Math.* 42 (1967), 197-306.
3. Homology and Homomorphisms of Rings, *J. of Algebra* 9 (1968), 273-284.
4. A Generalization of Clifford Algebras, *Math. Z.* 110 (1969), 171-176.
5. On the Enveloping Algebra and the Descending Central Series of a Lie Algebra, *J. of Algebra* 12 (1969), 335-338.
6. Un théorème de cancellation pour les algèbres d'Azumaya, in "Sur quelques problèmes d'algèbre", Publ. no. 52 U.E.R. de Mathématiques Montpellier, 4 (1968/69), 9-24.
7. Algebras graded by a group, *Springer LN* 92 (1969), 117-133.
8. Sur le théorème de Skolem-Noether et sur les dérivations des algèbres d'Azumaya, *C.R. Acad. Sciences. Paris t.* 270 (1970), 637-639.
9. Algèbres d'Azumaya et modules projectifs, *Comm. Helv. Math.* 45 (1970), 372-383.
10. Sur le théorème de Skolem-Noether, in *C.R. du 2ème K-Colloque*, Publ. No 100, U.E.R. de Mathématiques Montpellier (1970/71), 60-66.
11. (with M. Barr) Extensions of derivations, *Proc. Am. Math. Soc.* 28 (1971), 313-314.
12. (with M. Ojanguren) Sur le polynôme caractéristique et les automorphismes des algèbres d'Azumaya, *Ann. Scuola Normale Sup. Pisa* 26 (1972), 225-231.
13. (with M. Ojanguren) A note on the automorphisms of maximal orders, *J. of Algebra* 22 (1972), 573-577.
14. (with M. Ojanguren) Sur quelques applications de la théorie de la descente à l'étude du groupe de Brauer, *Comm. Math. Helv.* 47 (1972), 532-542.
15. Quelques problèmes d'existence en algèbre, plaquette du centenaire, *Gymnase cantonal, Neuchâtel* 1973. 183-192.
16. (with M. Ojanguren) Théorie de la descente et algèbres d'Azumaya, *Springer LN in Mathematics* 389 (1974). 163 p.
17. (with M. Ojanguren) A Mayer-Vietoris sequence for the Brauer group *Journal of pure and appl. Algebra* 5 (1974), 345-360.
18. (with M. Ojanguren) A norm for modules and algebras, *Math. Z.* 142 (1975), 33-45.
19. A Teichmüller cocycle for finite extensions, *Preprint*, 1975, 21 p.
20. (with M. Ojanguren und D. Saltman) On Brauer groups in characteristic p, *Springer LN in Mathematics* 549 (1976), 25-49.
21. (with F.R. De Meyer) The Brauer group of affine curve, *Proc. Am. Math. Soc.* 57 (1976), 227-232.
22. (with M. Ojanguren) Modules and quadratic forms over polynomial algebras, *Proc. Am. Soc.* 66 (1977), 223-226.
23. Formes quadratiques et algèbres d'Azumaya, *C.R. du Colloque sur les formes quadratiques, Montpellier* 1977, *Bull. Soc. Math. de France, Mémoire* 59 (1979), 95-100.

24. (with G. Mislin und U. Stambach) Herausgabe von: Topology and Algebra, Proceedings of a Colloquium in Honor of B. Eckmann, 280 S., Monographie No 26, L'Enseignement Mathématique, 1978.
25. Modules quadratiques sur un anneau de polynômes in 24., 179-185.
26. (with M. Ojanguren and R. Sridharan) Quadratic forms and Azumaya algebras. J. reine und angew. Mathematik 303/304 (1978), 231-248.
27. (with R. Parimala) Quadratic forms and projective modules, 24 p., 1978, Preprint, Forschungsinstitut für Mathematik ETH.
28. (with R. Parimala) Quadratic forms associated with projective modules over quaternion algebras, J. Reine Angew. Math.318 (1980), 20-31. (=27)
29. (with M. Ojanguren) Cohomologie étale et groupe de Brauer, Springer LN 844 (Groupe de Brauer, Les Plans-sur-Bex, 1980), 210-228.
30. Christoffel und die Mathematik an der polytechnischen Schule Zürich, in : E.B. Christoffel, The Influence of his Work on mathematics and the Physical Sciences, p. 33-41, Birkhäuser, 1981.
31. 150. Geburtstag von Richard Dedekind (1831-1916), ETH Bulletin 166, Oktober 1981, ETH Zürich.
32. (with R. Parimala and R. Sridharan) Non-free projective modules over  $H[x, y]$  and stable bundles over  $P^2(C)$ , Inventiones Math. 65 (1981), 13-27.
33. Quaternionic modules over  $P^2(R)$ , Proceedings of the Antwerp Conference on Brauer groups, Springer L.N. 917, 1982, 245-259.
34. Dedekind und das Polytechnikum in Zürich, Festband der Dedekind-Tagung 1981, Abh. der Braunschw. Wiss. Gesellschaft Bd.33 (1982), 43-60.
35. Quaternionen über Polynomringe, quadratische Formen über  $R[x, y]$  und Vektorbündel über  $P^2(C)$ , Festband der Dedekind-Tagung 1981 (siehe 32), 165-168.
36. (with M. Ojanguren and R. Parimala) Positive definite quadratic bundles over the projective plane, Comment. Math. Helvetici 57 (1982), 400-411.
37. (with W. Scharlau), Richard Dedekind, Vorlesung über Differential-und Integralrechnung 1861/62, Dokumente zur Geschichte der Mathematik Bd.1, Vieweg, 1985.
38. (with A. Paques) Quadratic spaces with trivial Arf invariant, J. of Algebra 93 (1985), 267-291.
39. Bundles on  $P^2$  with a quaternion structure, Proceedings, International Colloquium on vector bundles, Bombay 1984, Oxford University Press, (1987), 225-250.
40. with R. Parimala and R. Sridharan) On rank 4 quadratic spaces with given Arf and Witt invariants, Math. Ann. 274 (1986), 181-198.
41. (with M. Kneser, M. Ojanguren, R. Parimala and R. Sridharan) Composition of quaternary quadratic forms, Compositio Mathematica 69 (1986), 133-150.
42. (with G. Mislin and U. Stambach) Selecta Beno Eckmann (Editors), Springer-Verlag, 1987.
43. Quadratic spaces and central separable algebras over polynomial rings, Seminars in Mathematics 3, Campinas 1988, 86-99.
44. Pfaffians and quadratic forms, Adv. of Math. 71 (1988), 1-20.
45. Quadratic forms, Clifford algebras and Spinors, Lecture notes, 136 pages, Seminars in Mathematics 1, Campinas, 1988.

46. (with R. Parimala and R. Sridharan) A classification of rank 6 quadratic spaces via pfaffians, *J. reine und angewandte Mathematik* 398 (1989), 187-218.
47. (with R. Parimala and V. Srinivas) Azumaya algebras with involutions, *J. of Algebra* 130 (1990), 65-82.
48. (with R. Parimala and R. Sridharan) Pfaffians, central algebras and similitudes, *Math. Z.* 206 (1991), 589-604.
49. (with M. Ojanguren) The Clifford algebra of a metabolic space, *Archiv Math.* 56 (1991), 440-445.
50. (with A. Schofield) Aspects of the pfaffian, *Comm. Algebra* 19 (1991), 1959-1969.
51. (with R. Parimala and R. Sridharan) Involutions on rank 16 central simple algebras, *J. Indian Math. Soc.* 57 (1991), 143-151.
52. (with R. Parimala and R. Sridharan) On the discriminant of an involution, *Bulletin Soc. Math. Belgique* 43 (1991), 90-98.
53. *Quadratic and Hermitians Forms over Rings*, Grundlehren der mathematischen Wissenschaften, Bd. 294, Springer-Verlag, 1991.
54. Sur la forme d'Albert et le produit tensoriel de deux algèbres de quaternions, *Bull.Soc. Math. Belg.* 45 (1993), 333-337.
55. A brief panorama of mathematics in Switzerland, *The Zürich Intelligencer*, Springer-Verlag, August 1994.
56. Von Familien, Wunderkindern und Autodidakten, *unizürich* 2/94, 6-8, appeared also in *Bulletin, Magazin der ETH* 254, Juni 1994, 4-7 and *Vermessung, Photogrammetrie, Kulturtechnik* 8/94, 373-374.
57. Wie 55, *Bulletin, Magazin der ETH* 254, Juni 1994, 4-7
58. Wie 55, *Vermessung, Photogrammetrie, Kulturtechnik* 8/94, 373-374
59. (with W. Bichsel) Quadratic forms with values in line bundles, *Contemporary Mathematics* 155 (1994), 293-306.
60. (with R. Parimala and R. Sridharan) On compositions and triality, *J. reine angew. Math.* 457 (1994), 45-70.
61. (with T.Y. Lam, D.B. Shapiro and J.-P. Tignol) Discriminants of involutions on biquaternion algebras, *Proceedings of Symposia in Pure Mathematics* 58.2 (1995), 279-303.
62. (with D.E. Haile) On division algebras of degree 3 with involution, *J. Algebra*, 184 (1996), 1073-1081.
63. (with D.E. Haile, M. Rost and J.-P. Tignol) Algebras of odd degree with involution, trace forms and dihedral extensions, *Israel J. Math.* 96 (1996), 299-340.
64. *Au Poly? An der ETH?*, *Kleine Schriften*, ETH Zürich, Januar 1997, 9 Seiten.
65. (with A. Paques) On cubic étale algebras, *Abh. Math. Sem. Univ. Hamburg* 67 (1997), 281-295.
66. (with A. A. Merkurjev, M. Rost and J.-P. Tignol) *The Book of Involutions*, *Colloquium Publications* Vol. 44, *Amer. Math. Society*, 1998, XXI + 593 pages.
67. (with R. Parimala, R. Sridharan) On generic triality, *Proceedings of the International Colloquium on Algebra and Geometry*, Mumbai 2000, Naroda Publishing House, (2002), International Distribution by *Amer. Math. Soc.*, 355-404.

68. (with O. Villa) Quadratic quaternion forms, involutions and triality, Documenta Mathematica, Quadratic Forms LSU (2001), 201-218.
69. (with J.-P. Tignol) Quartic exercises, 49 p., 2003.