

PUBLICATIONS

a) Refereed journal publications:

1. F. Finster, N. Kamran, J. Smoller and S.-T. Yau, 2009, Linear Waves in the Kerr Geometry: A Mathematical Voyage to Black Hole Physics, *Bull. Amer. Math. Soc. (N.S.)*, 46, pp. 635-659.
2. A. Enciso and N. Kamran, 2009, Green's function for the Hodge Laplacian on some classes of Riemannian and Lorentzian symmetric spaces, *Commun. Math. Phys.*, 290, pp. 105-127.
3. F. Finster, N. Kamran, J. Smoller and S.-T. Yau, 2009, A rigorous treatment of energy extraction from a rotating black hole, *Commun. Math. Phys.*, 287, pp. 829-847.
4. N. Kamran, P.J. Olver and K. Tenenblat, 2009, Local symplectic invariants for curves, *Commun. Contemp. Math.*, 11, pp. 165-183.
5. N. Barnaby and N. Kamran, 2008, Dynamics with infinitely many derivatives: variable coefficient equations, *J. High Energy Physics*, 12, pp. 1-26.
6. N. Barnaby and N. Kamran, 2008, Dynamics with infinitely many derivatives: the initial value problem, *J. High Energy Physics*, 02, pp. 1-39.
7. D. Gómez-Ullate, N. Kamran and R. Milson, 2007, Quasi-exact solvability in a general polynomial setting, *Inverse Problems*, 23, pp. 1915-1942.
8. D. Gómez-Ullate, N. Kamran and R. Milson, 2007, Structure theorems for linear and non-linear differential operators admitting invariant polynomial subspaces, *Discrete and Continuous Dynamical Systems, Series A*, 18, pp. 85-106.
9. F. Finster, N. Kamran, J. Smoller and S.-T. Yau, 2006, Decay of scalar waves in Kerr geometry, *Commun. Math. Phys.*, 264, pp. 465-503.
10. F. Finster, N. Kamran, J. Smoller and S.-T. Yau, 2005, An integral spectral representation of the propagator for the wave equation in Kerr geometry, *Commun. Math. Phys.*, 260, pp. 257-298
11. S. Frittelli, N. Kamran and E.T. Newman, 2005, Null surfaces and contact geometry, *J. Hyperbolic Diff. Eq.*, 2, pp. 481-496.
12. D. Gómez-Ullate, N. Kamran and R. Milson, 2005, Quasi-exact solvability and the direct approach to invariant subspaces, *J. Phys. A: Math. Gen.*, 38, pp. 2005-2019.
13. N. Kamran and T. Robart, 2004, An infinite-dimensional manifold structure for analytic Lie pseudogroups of infinite type, *International Mathematics Research Notices*, 34, pp 1761-1783.
14. D. Gómez-Ullate, N. Kamran and R. Milson, 2004, Supersymmetry and algebraic Darboux transformations, *J. Phys. A: Math. Gen.*, 37, pp. 10065-10078.

15. D. Gómez-Ullate, N. Kamran and R. Milson, 2004, The Darboux transformation and algebraic deformations of shape invariant potentials, *J. Phys. A: Math. Gen.*, 37, pp. 1789-1804.
16. S. Frittelli, N. Kamran and E.T. Newman, 2003, The eikonal equation, envelopes and contact transformations, *Class. Quantum Grav.*, 20, pp. 3071-3079
17. F. Finster, N. Kamran, J. Smoller and S.-T. Yau, 2003, The long-term dynamics of Dirac particles in the Kerr-Newman black hole geometry, *Adv. Theor. Math. Phys.*, 7, pp. 25-52.
18. N. Kamran, 2003, Some recent mathematical developments in general relativity, *C. R. Math. Rep. Acad. Sci. Canada*, 25, pp. 33-46.
19. F. Finster, N. Kamran, J. Smoller and S.-T. Yau, 2002, Decay rates and probability estimates for massive Dirac particles in the Kerr-Newman black hole geometry, *Commun. Math. Phys.*, 230, pp. 201-244.
20. S. Frittelli, N. Kamran and E.T. Newman, 2002, Differential equations and conformal geometry, *J. Geometry and Physics*, 43, pp. 133-145.
21. N. Kamran and T. Robart, 2001, On Lie's third fundamental theorem for analytic isotropy Lie pseudo-groups of infinite type, *J. Lie Theory*, 11, pp. 57-80.
22. F. Finster, N. Kamran, J. Smoller and S.-T. Yau, 2000, Non-existence of time periodic solutions of the Dirac equation in axisymmetric black hole geometries, *Comm. Pure and Applied Mathematics*, LIII, pp. 902-929, erratum on p. 1201.
23. N. Kamran, R. Milson and P. J. Olver, 2000, Invariant modules and the reduction of non-linear partial differential equations to dynamical systems, *Advances in Mathematics*, 156, pp. 286-319.
24. N. Kamran and T. Robart, 2000, On the parametrization problem of Lie pseudo-groups of infinite type, *Comptes Rendus Acad. Sci. (Paris)*, t. 331, Série I, pp. 899-903.
25. P. Bracken and N. Kamran, 1999, Matrix Calogero-Sutherland Hamiltonians and the multi-dimensional Darboux transformation, *J. Geometry and Physics*, 30, pp. 283-294.
26. N. Kamran and R. Milson, 1999, Algebraic exact solvability of trigonometric-type Hamiltonians associated to root systems, *J. Math. Phys.* 40, pp. 5004-5013.
27. A. González-López and N. Kamran, 1998, The multi-dimensional Darboux transformation, *J. Geometry and Physics*, 26, pp. 202-226.
28. F. Finkel and N. Kamran, 1998, The Lie-algebraic structure of differential operators admitting invariant polynomial subspaces, *Advances in Applied Mathematics*, 20, pp. 300-322.
29. N. Kamran and K. Tenenblat, 1998, Periodic systems for the higher-dimensional Laplace transformation, *Discrete and Continuous Dynamical Systems*, 4, 359-378.

30. I. Anderson and N. Kamran, 1997, The variational bicomplex for hyperbolic second-order scalar partial differential equations in the plane, *Duke Math. J.*, 87, pp. 265-319.
31. N. Kamran and T. Robart, 1997, Perspectives sur la théorie des pseudo-groupes infinis de transformations, *J. Geometry and Physics*, 23, pp. 308-318.
32. T. Robart et N. Kamran, 1997, Sur la théorie locale des pseudo-groupes infinis, *Mathematische Annalen*, 308, pp. 593-613,
33. N. Kamran and T. Robart, 1997, Abstract structure for Lie pseudo-groups of infinite type, *Comptes Rendus Acad. Sci. (Paris)*, t. 324, Série I, pp. 1395-1399.
34. N. Kamran and K. Tenenblat, 1996, Laplace transformation in higher dimensions, *Duke Math. J.*, 84, pp. 237-266.
35. A. González-López, N. Kamran and P.J. Olver, 1996, Real Lie algebras of differential operators and quasi-exactly solvable potentials, *Phil. Trans. Roy. Soc. London A*, 354, pp. 1165-1193.
36. R.B. Gardner and N. Kamran, 1995, Normal forms and focal systems for determined systems of two first-order partial differential equations in the plane, *Indiana University Math. J.*, 44, pp. 1127-1162.
37. I. Anderson and N. Kamran, 1995, La cohomologie du complexe bi-gradué variationnel pour les équations paraboliques du deuxième ordre dans le plan, *Comptes Rendus Acad. Sci. (Paris)*, t. 321, Série I, pp. 1213-1217.
38. I. Anderson and N. Kamran, 1995, Conservation laws and the variational bi-complex for second-order scalar hyperbolic equations in the plane, *Acta Applic. Math.*, 41, pp. 135-144.
39. N. Kamran and K. Tenenblat, 1995, On differential equations describing pseudo-spherical surfaces, *J. Differential Equations*, 104, pp. 60-116.
40. A. González-López, N. Kamran and P.J. Olver, 1994, New quasi-exactly solvable Hamiltonians in two dimensions, *Commun. Math. Phys.*, 179, pp. 503-537.
41. I. Anderson, N. Kamran and P.J. Olver, 1993, Internal, external and generalized symmetries, *Advances in Mathematics*, 100, pp. 53-100.
42. R. B. Gardner and N. Kamran, 1993, Characteristics and the geometry of non-linear hyperbolic equations in the plane, *J. Differential Equations*, 104, pp. 60-116.
43. A. González-López, J. Hurtubise, N. Kamran and P.J. Olver, 1993, Quantification de la cohomologie des algèbres de Lie de champs de vecteurs et fibrés endroites sur des surfaces complexes compactes, *Comptes Rendus Acad. Sci. (Paris)*, t. 316, Série I, pp. 1307-1312.
44. A. González-López, N. Kamran and P.J. Olver, 1993, Normalizability of 1-dimensional quasi-exactly solvable Schrödinger operators, *Commun. Math. Phys.*, 153, pp. 117-146.

45. A. González-López, N. Kamran and P.J. Olver, 1992, Lie algebras of differential operators in two complex variables, *American Journal of Mathematics*, 114, pp1163-1185.
46. J. Hurtubise and N. Kamran, 1992, Projective connections, double fibrations and formal neighbourhoods of lines , *Mathematische Annalen*, 292, pp383-409.
47. A. González-López, N. Kamran and P.J. Olver, 1992, Lie algebras of vector fields in the real plane, *Proc. London Math. Soc.*, 64, pp. 339-368.
48. N. Kamran and P.J. Olver, 1992, Equivalence of higher-order Lagrangians, III: New invariant differential equations, *Nonlinearity*, 5, pp. 601-621.
49. A. González-López, N. Kamran and P.J. Olver, 1991, Quasi-exactly solvable Lie algebras of differential operators in two complex variables, *J. Phys. A: Math. Gen.*, 24, pp. 3995-4008.
50. B.R. Iyer and N. Kamran, 1991, Separation of variables for the Dirac equation in an extended class of Lorentzian metrics with local rotational symmetry, *J. Math. Phys.*, 32, pp. 2497-2503.
51. N. Kamran and P.J. Olver, 1991, Equivalence of higher-order Lagrangians, I: Formulation and reduction, *J. Math. Pures et Appliquées*, 70, pp. 369-391.
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53. M. Fels and N. Kamran, 1990, Non-factorisable separable systems and higher-order symmetries of the Dirac operator, *Proc. Roy. Soc. London A*, 428, pp. 229-249.
54. N. Kamran and P.J. Olver, 1990, Lie algebras of differential operators and Lie-algebraic potentials, *J. Math. Anal. Appl.*, 145, pp. 342-356.
55. N. Kamran and P.J. Olver, 1989, Equivalence problems for first-order Lagrangians, *J. Differential Equations*, 80, pp. 32-79.
56. N. Kamran and P.J. Olver, 1989, Equivalence of differential operators, *SIAM J. Math. Anal.*, 20, pp. 1172-1187.
57. L. Hsu and N. Kamran, 1989, Classification of second-order ordinary differential equations admitting Lie groups of fiber-preserving symmetries, *Proc. London Math. Soc.*, 58, pp. 387-416.
58. N. Kamran and P.J. Olver, 1989, Le problème d'équivalence à une divergence près dans le calcul des variations des intégrales multiples, *Comptes Rendus Acad. Sci. (Paris)*, t. 308, Série I, pp. 249-252.
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60. L. Hsu and N. Kamran, 1988, Symmetries of second-order ordinary differential equations and Cartan's method of equivalence, *Lett. Math. Phys.*, 15, pp. 91-99.

61. N. Kamran, M. Légaré, R.G. McLenaghan and P. Winternitz, 1988, Classification of complete sets of operators commuting with the Dirac operator in Minkowski space-time, *J. Math. Phys.*, 29, pp. 403-412.
62. N. Kamran, 1987, Séparation des variables pour les potentiels de Debye dans toutes les solutions de type D des équations d' Einstein, *Comptes Rendus Acad. Sci. (Paris)*, t. 304, Série I, pp. 299-302.
63. N. Kamran and W.F. Shadwick, 1987, A differential-geometric characterization of the first Painlevé transcendent, *Mathematische Annalen*, 279, pp. 117-123.
64. N. Kamran and W.F. Shadwick, 1986, Equivalence locale des équations aux dérivées partielles du deuxième ordre et groupes infinis, *Comptes Rendus Acad. Sci. (Paris)*, t. 303, Série I, pp. 505-508.
65. N. Kamran and J.A. Marck, 1986, Parallel-propagated frame along the geodesics of the metrics admitting a Killing-Yano tensor, *J. Math. Phys.*, 27, pp. 1225-1227.
66. D. David, N. Kamran, D. Levi and P. Winternitz, 1986, Symmetry reduction for the KP equation using a loop algebra, *J. Math. Phys.*, 27, pp. 1579-1591.
67. N. Kamran, K. Lamb and W. F. Shadwick, 1985, The local equivalence problem for $y'' = F(x, y, y')$ and the Painlevé transcendents, *J. Differential Geometry*, 22, pp. 139-150.
68. D. David, N. Kamran, D. Levi and P. Winternitz, 1985, Subalgebras of loop algebras and symmetries of the KP equation, *Physical Review Letters*, 55, pp. 2111-2114.
69. N. Kamran, 1985, Separation of variables for the Rarita-Schwinger equation on all type D vacuum backgrounds, *J. Math. Phys.*, 26, pp. 1740-1743.
70. N. Kamran and R. G. McLenaghan, 1985, Symmetry operators for the conformally invariant Klein-Gordon equation on curved space-time, *Lett. Math. Phys.*, 9, pp. 65-72.
71. N. Kamran and R. G. McLenaghan, 1985, Separation of variables and constants of the motion for the Dirac equation on curved space-time, *Bull. Cl. Sci. Acad. Roy. Belgique*, LXX, pp. 596-610.
72. N. Kamran and R. G. McLenaghan, 1984, Symmetry operators for neutrino and Dirac fields on curved space-time, *Physical Review D*, 30, pp. 357-363.
73. R. Debever, N. Kamran and R. G. McLenaghan, 1984, Sur une nouvelle expression de la solution générale des équations d' Einstein avec champ de Maxwell non-singulier, aligné, sans source et avec constante cosmologique, en type D, *Annales de l' Institut Henri Poincaré*, 41, pp. 191-206.
74. R. Debever, N. Kamran and R. G. McLenaghan, 1984, Exhaustive integration and a single expression for the general solution of the type D vacuum and electrovac fields equations with cosmological constant for a non-singular aligned Maxwell field, *J. Math. Phys.*, 25, pp. 1955-1972.

75. N. Kamran and R.G. McLenaghan, 1984, Separation of variables and symmetry operators for the neutrino and Dirac equations in the spacetimes admitting a two-parameter Abelian orthogonally transitive isometry group and a pair of shear-free geodesic null congruences, *J. Math. Phys.*, 25, pp. 1019-1027.
76. N. Kamran and R.G. McLenaghan, 1983, Separation of variables and quantum numbers for Weyl neutrino fields on curved spacetime, *Lett. Math. Phys.*, 7, pp. 381-386.
77. N. Kamran and E.T. Newman, 1983, Real structures in asymptotically flat \mathcal{H} -spaces, *Gen. Rel. Grav.*, 15, pp. 655-660.
78. R. Debever, N. Kamran and R. G. McLenaghan, 1983, A single expression for the general solution of the type D vacuum and electrovac fields equations with cosmological constant admitting a non-singular aligned Maxwell field, *Physics Letters A*, 93, pp. 399-402.
79. R. Debever, N. Kamran and R. G. McLenaghan, 1982, Sur l' intégration complète des équations d' Einstein du vide et de Maxwell-Einstein en type D, *Bull. Cl. Sci. Acad. Roy. Belgique*, LXVIII, pp. 592-611.
80. R. Debever, N. Kamran, 1982, Empty spaces and perfect fluids with homothetic transformations, *Gen. Rel. Grav.*, 14, pp. 637-646.
81. R. Debever, N. Kamran, 1980, Coordonnées symétriques et coordonnées isotropes des solutions de type D des équations d' Einstein-Maxwell avec constante cosmologique, *Bull. Cl. Sci. Acad. Roy. Belgique*, LXVI, pp. 585-599.

b) Articles submitted to refereed journals:

82. D. Gómez-Ullate, N. Kamran and R. Milson, 2009, An Extension of Bochner's Problem: Exceptional Invariant Subspaces, 21 pages.
83. D. Gómez-Ullate, N. Kamran and R. Milson, 2009, An extended class of orthogonal polynomials defined by a Sturm-Liouville problem, 23 pages.

d) Research monographs:

84. N. Kamran, 2002, *Selected topics in the geometrical study of differential equations*, NSF-CBMS Regional Conference Series in Mathematics Vol. **96**, American Mathematical Society, Providence, 134 pages.
85. N. Kamran, 1989, *Contributions to the study of the equivalence problem of Elie Cartan and its applications to partial and ordinary differential equations*, Mémoires de la Classe des Sciences de l' Académie Royale de Belgique, t. **45**, Fasc. 7, 120 pages (winner of a prize for the 1988 Competition of the Royal Academy of Sciences of Belgium).

e) **Articles in refereed conference proceedings:**

86. N. Kamran, 2009, Focal systems for Pfaffian systems with characteristics, in *Differential equations: Geometry, symmetries and integrability, the Abel Symposium 2008*, ed. B. Kruglikov *et al.*, Springer-Verlag.
87. D. Gómez-Ullate, N. Kamran and R. Milson, 2007, Quasi-exact solvability beyond the $sl(2)$ algebraization, in International Conference on Symmetry Methods in Physics (Dubna, 2005). *Phys. Atomic Nuclei*, 70, No.3, pp. 1-9.
88. S. Frittelli, N. Kamran and E.T. Newman, 2003, Conformal geometry, differential equations and associated transformations, in *The conformal structure of space-times*, ed. J. Frauendiener and H. Friedrich, Springer Lecture Notes in Physics, Vol. 604, pp. 111-134.
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92. F. Finkel and N. Kamran, 1997, On the equivalence of matrix differential operators to Schrödinger form, in *the Fushchych Memorial Volume*, published as special issue of *J. Nonlinear Math. Phys.* Vol. 4, Numbers 3-4, pp. 278-287.
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94. F. Finkel, A. González-López, N. Kamran, P.J. Olver, M.A. Rodríguez, 1997, Lie algebras of differential operators and partial integrability, in *Differential Geometry and its Applications (Santiago de Compostela, 1995)*, An. Fis. Monogr., 3, CIEMAT, Madrid, pp. 29-53.
95. N. Kamran and K. Tenenblat, 1995, Laplace transformation for Cartan submanifolds, in *IX-th School of Differential Geometry, Vitória, 1994*, ed. M. do Carmo, *Matemática. Contemporânea*, Vol.9, Sociedade Brasileira de Matemática, pp. 117-138.
96. A. González-López, N. Kamran and P.J. Olver, 1994, Quasi-exact solvability, in *Lie Algebras, Cohomology and New Applications to Quantum Mechanics*, ed. N. Kamran

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97. I. Anderson, N. Kamran and P.J. Olver, 1993, Internal symmetries of differential equations, in *Modern Group Analysis: Advanced Analytical and Computational Methods in Mathematical Physics*, ed. N. Ibragimov, M. Torrisi and A. Valenti, Kluwer, Dordrecht, pp. 7-21.
 98. J. Hurtubise and N. Kamran, 1992, Differential invariants, double fibrations and Painlevé transcendents, in *Painlevé Transcendents, their Asymptotics and Physical Applications*. ed. D. Levi and P. Winternitz, NATO, ASI, Series B, Vol. 278, Plenum Press, New York, pp. 271-298.
 99. A. González-López, N. Kamran and P.J. Olver, 1992, Lie algebras of first-order differential operators in two complex variables, in *Differential Geometry, Global Analysis and Topology*, ed. A. Nicas and W. F. Shadwick, Canadian Mathematical Society Conference Proceedings, Vol. 12, American Mathematical Society, Providence, pp. 51-84.
 100. M. Fels and N. Kamran, 1990, Non-factorisable separable systems and second-order symmetries of the Dirac operator on four-dimensional Lorentzian spin manifolds, in *Lie Theory, Differential Equations and Representation Theory, Proceedings of the Annual Seminar of the Canadian Mathematical Society*, ed. V. Hussin, CRM Publications, Montréal, pp. 197-211.
 101. N. Kamran, 1989, The equivalence problem of Cartan, differential equations and computer algebra, in *Computer Algebra and Differential Equations* ed. E. Tournier, Academic Press, New York, pp. 87-117.
 102. N. Kamran, 1988, An introduction to the equivalence problem of Elie Cartan, in *Symmetries and Nonlinear Phenomena*, ed. D. Levi and P. Winternitz, World Scientific Press, Singapore, London, pp. 99-121.
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f) Chapters in books:

107. N. Kamran, 2008, Exterior differential systems, in *Handbook of Global Analysis* ed. D. Krupka and D. Saunders, Elsevier, Amsterdam, pp. 107-145.
108. N. Kamran, 2006, Transitive analytic Lie pseudogroups, in *Inspired by S.S. Chern, a memorial volume in honor of a great mathematician*, ed. P.A. Griffiths, Nankai Tracts in Mathematics, Vol. 11, World Scientific, Singapore, pp. 297-313.
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112. A. González-López, N. Kamran and P.J. Olver, 1994, Quasi-exact solvability, an appendix in *Quasi-Exactly Solvable Models in Quantum Mechanics*, by A. Ushveridze, Adam Hilger Publishers, Institute of Physics, Bristol, UK, pp. 417-442.
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114. N. Kamran and W.F. Shadwick, 1986, The solution of the equivalence problem for $y'' = F(x, y, y')$ under the pseudo-group $\bar{x} = \phi(x)$, $\bar{y} = \psi(x, y)$, in *Field Theory, Quantum Gravity and Strings*, ed. H. de Vega and N. Sánchez, Springer Lecture Notes in Physics, Vol. 246, Springer-Verlag, New York, pp. 320-334.

g) Books edited:

115. N. Kamran and P.J. Olver, (eds.), 1994, *Lie Algebras, Cohomology and New Applications to Quantum Mechanics*, Contemporary Mathematics, Vol. 160, American Mathematical Society, Providence.