List of Publications

1. Anomalous Threshold Singularities in S-Matrix Theory

2. Nonphysical Region Singularities of the S-Matrix

3. with A.R. White
   TCP Signature and Non-Compact Covariance Conditions in Crossed Partial Wave Analysis: The Three Reggeon Vertex

4. with A.R. White
   The Three Reggeon Vertex: Analyticity, Asymptotics and the Toller Pole Model

5. with A.R. White
   Complex Helicity and the Sommerfeld-Watson Transform of Group Theoretic Expansions

6. with A.R. White
   Landau Singularities in Multi-Regge Theory and Fixed Angle Behaviour

7. with P.H. Frampton and D.A. Wray
   Perturbative Unitarity of Dual Loops

8. Analytic Renormalisation of Dual One Loop Amplitudes

9. with R.C. Brower
   Generalised Virasoro Models

10. with R.E. Waltz
    One Loop Amplitudes in the Model of Neveu and Schwarz

11. with R.C. Brower
    Collinear Algebra for the Dual Model
12. with R.C. Brower
  Physical States in the Dual Resonance Model

13. with A.R. White
  The Zero in the Three Pomeron Vertex

14. with C.B. Thorn
  Compatibility of the Dual Pomeron with Unitarity and the Absence of Ghosts in the Dual Resonance Model

15. with C. Rebbi and C.B. Thorn
  Lorentz Covariance and the Physical States in the Dual Resonance Model

16. with J. Goldstone, C. Rebbi and C.B. Thorn
  Quantum Dynamics of a Massless Relativistic String

17. with E.F. Corrigan
  Gauge Conditions in the Dual Fermion Model

18. with E.F. Corrigan
  The Off-Mass Shell Physical State Projection Operator in the Dual Resonance Model

19. with E.F. Corrigan, D.I. Olive and R.A. Smith
  Evaluation of the Scattering Amplitude for Four Dual Fermions

20. Dual Resonance Models

21. with E.F. Corrigan
    Absence of Ghosts in the Dual Fermion Model

22. The Connection between Supersymmetry and Ordinary Lie Symmetry Groups
23. with A.J. Hanson and G. Ponzano
The Quantization of a Massless Relativistic String in a Time-like Gauge

24. with R. Horsley
The Group Theoretic Structure of Dual Vertices

25. The Dynamics of A Twistable Relativistic String

26. with J. Nuyts and D.I. Olive
Gauge Theories and Magnetic Charge

27. Magnetic Monopoles and Related Objects

Bäcklund Transformations and the Construction of the Atiyah-Ward Ansätze for Self-Dual SU(2) Gauge Fields

The Construction of Self-Dual Solutions to SU(2) Gauge Theory
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30. with D.I. Olive
Magnetic Monopoles in Gauge Field Theories

31. with E.F. Corrigan, D.B. Fairlie and S. Templeton
A Green Function for the General Self-Dual Gauge Field

32. with E.F. Corrigan and S. Templeton
Instanton Green Functions and Tensor Products

33. with E.F. Corrigan, H. Osborn and S. Templeton
Zeta Function Regularisation and Multi-Instanton Determinants
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34. with E.F. Corrigan
   Some Aspects of Instantons

35. with E.F. Corrigan
   Instantons

36. with P. Mansfield and H. Osborn
   The Functional Measure for the Exact Two Instanton Solution

37. with D.I. Olive
   Charge Quantization in Theories with an Adjoint Representation Higgs Mechanism.

38. with E.F. Corrigan
   An $n$ Monopole Solution with $4n - 1$ Degrees of Freedom

39. with D.I. Olive
   The Magnetic Charges of Stable Self-Dual Monopoles

40. Magnetic Monopoles in Grand Unified Theories
   Philosophical Transactions of the Royal Society, **A304**, 87–95 (1982).

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   Self-Dual Monopoles and Toda Molecules

42. as editor, with N. Craigie and W. Nahm

43. with M.C. Bowman, E.F. Corrigan, A. Puaca and A. Soper
   The Construction of Spherically Symmetric Monopoles using the ADHMN Formalism

44. with E.F. Corrigan
   Construction of Instanton and Monopole Solutions and Reciprocity
45. Topological Excitations in Field Theory
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46. with D.I. Olive
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47. with E.F. Corrigan and A. Kent
   Some Comments on the ADHM Construction in 4k Dimensions

48. with D.I. Olive
   Kac-Moody Algebras, Conformal Symmetry and Critical Exponents

49. with A. Kent and D.I. Olive
   Virasoro Algebras and Coset Space Models

50. with P.R.W. Mansfield
   Topological Structures in Field Theories

51. Infinite Dimensional Algebras: Representations and Applications
   In: *Proceedings of the 13th Winter School on Abstract Analysis, Srni, 1985*, Supple-

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   The Heterotic String and a Fermionic Construction of the $E_8$ Kac-Moody Algebra

53. with W. Nahm and D.I. Olive
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54. Magnetic Monopoles

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56. Vertex Operators and Algebras

57. with A. Kent and D. Olive
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59. Algebras, Lattices and Vertex Operators

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63. Representations of Kac-Moody and Virasoro Algebras

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65. with P. Bowcock
   Virasoro Algebras with Central Charge $c < 1$

66. with R. Bluhm and L. Dolan
   A New Method of Incorporating Symmetry into Superstring Theory
67. with W. Nahm, D. Olive, H. Ruegg and A. Schwimmer
   Fermions and Octonions

68. with D. Olive and G. Waterson
   Superalgebras, Symplectic Bosons and the Sugawara Construction

69. Symmetry and Algebras in String Theory

70. Modular Invariance and Infinite-dimensional Algebras

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   Kac-Moody and Virasoro Algebras: a reprint volume for physicists

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   Factoring Out Free Fermions and Superconformal Algebras
78. Conformal Symmetry and its Extensions

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80. Gauge Symmetry in String Theory

81. String Theory

82. with L. Dolan and P. Montague
   Conformal Field Theory of Twisted Vertex Operators

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   Conformal Field Theory, Triality and the Monster Group

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   Twisted Conformal Field Theory

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   Quantization of the Wess-Zumino-Witten Model on a Circle

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   Field Theory Construction of Chiral SU(N) WZW Models at Level One

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88. with M. Chu
   Quantization of the SU(N) WZW Model at level k
89. with L. Dolan and P. Montague
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90. as editor
Paul Dirac, The Man and his Work

91. The Work of R.E. Borcherds

92. with M.R. Gaberdiel
Axiomatic Conformal Field Theory

93. with M.R. Gaberdiel
An Introduction to Meromorphic Conformal Field Theory and its Representations,

94. with L. Dolan
Tree and Loop Amplitudes in Open Twistor String Theory

95. with L. Dolan
Current Algebra on the Torus

96. From Dual Models to String Theory

97. with L. Dolan
Gluon Tree Amplitudes in Open Twistor String Theory

98. with L. Dolan
General Split Helicity Gluon Tree Amplitudes in Open Twistor String Theory

99. with L. Dolan
Complete Equivalence Between Gluon Tree Amplitudes in Twistor String Theory and in Gauge Theory
100. *with L. Dolan*

Proof of the Formula of Cachazo, He and Yuan for Yang-Mills Tree Amplitudes in Arbitrary Dimension

[arXiv:1311.5200]

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The Polynomial Form of the Scattering Equations

[arXiv:1402.7374]