

Curriculum Vitae
Elenco completo delle pubblicazioni

ROBERTO TATEO

Dati Personali:

Impiego : Professore Ordinario, Fisica Teorica, FIS/02
Indirizzo : Dipartimento di Fisica,
Università di Torino,
10125 Torino, Italy.

Studi:

1990-1993 : Università di Torino,
Dottorato in Fisica Teorica (19/9/1994)
Supervisor: Prof. ██████████.
1985-1990 : Università di Torino,
Laurea in Fisica (110/110 e lode, 7/7/1990)
Relatore: Prof. ██████████.
1980-1985 : Istituto tecnico Sant'Ottavio, Torino,
Diploma di Maturità in Informatica.

Servizio Militare:

1992-1993 : 'Brigata Alpina Taurinense', Cuneo.

Esperienza lavorativa:

Dal 2002 : Ricercatore/Professore Associato, Dipartimento di Fisica, Torino
(In congedo per motivi di studio dal 1/12/2002 al 1/12/2003).
2001-2003 : Advanced Fellow, Five year EPSRC Advanced Fellowship,
Maths Department, University of Durham, UK.
2000-2001 : Visiting Professor, EPSRC Visiting Professor Fellowship,
Maths Department, University of Durham, UK.
1998-2000 : Post-Doc, FOM Fellowship,
Physics Department, University of Amsterdam, NL.
Responsabile: Prof. ██████████.
1997-1998 : Post-Doc, TMR Fellowship,
: Service de Physique Theorique, CEA, Saclay, F.
Responsabile: Prof. D. Bernard, Prof. ██████████.
1994-1997 : Post-Doc, Maths Department,
University of Durham, Durham, UK.
Responsabile: Prof. ██████████.

Riconoscimenti e premi:

- 2000 : EPSRC Visiting Professor Fellowship.
2001 : Five year EPSRC Advanced Fellowship.
2001 : EPSRC Fellowship Support Funds.
2011 : Journal of Physics A -Best Paper Prize:
D. Bombardelli, D. Fioravanti and R. Tateo,
“Thermodynamic Bethe Ansatz for planar AdS/CFT: a proposal”, J.Phys.A42,375401 (2009).
2017 : Due articoli tra “Most influential papers from Journal of Physics A”,
The 50th anniversary of the Journal of Physics series,
(<http://iopscience.iop.org/journal/1751-8121/page/JPhys50-viewpoints>):
A) “Spectral equivalences, Bethe ansatz equations, and reality properties in PT-symmetric quantum
mechanics”, P. Dorey, C. Dunning, R. Tateo, 2001 J.Phys.A: Math.Gen. 34 5679
(View point by Carl M. Bender)
B) “Thermodynamic Bethe ansatz for planar AdS/CFT: a proposal”,
D.Bombardelli, D.Fioravanti, R.Tateo, 2009 J. Phys. A: Math. Theor. 42 375401
(View point by Joseph A. Minahan)

Abilitazione Scientifica Nazionale:

- 2013 : Abilitazione scientifica nazionale alle funzioni di professore di seconda fascia nel settore concorsuale 02/A2.
2013 : Abilitazione scientifica nazionale alle funzioni di professore di prima fascia nel settore concorsuale 02/A2.

Dettagli sulle Fellowships EPSRC:

- Grant : Five year EPSRC Advanced Fellowships
Responsabile : R. Tateo
Anno : 2001
Codice di riferimento : GR/A10383/01-AF
Fondi assegnati : 190798 pounds
Titolo : ‘A unified framework for integrable quantum field
theories and ordinary differential equations’.
Giudizio finale : La qualità della ricerca è stata valutata ‘Internationally leading’,
con giudizio complessivo ‘Outstanding’.
- Grant : EPSRC Support Funds Fellowships
Responsabile : R. Tateo
Anno : 2001
Codice di riferimento. : GR/A10383/01-FSF
Fondi assegnati : 50000 pounds
- Grant : EPSRC Visiting Professor Fellowship
Visiting Fellow : R. Tateo
Anno : 2000
Codice di riferimento : GR/N27330/01
Fondi assegnati : 40128 pounds
Titolo : ‘Ordinary differential equations and integrable quantum field theories’.
Giudizio Finale : La qualità della ricerca è stata valutata ‘Internationally leading’,
con giudizio complessivo ‘Outstanding’.

I risultati di questi progetti sono stati evidenziati per diversi anni come ‘Research Highlight’ dall’EPSRC. Ancora nel 2010 sul documento dell’EPSRC ‘International review of mathematical sciences in the United Kingdom’, vi era scritto: ‘The discovery in Durham-Kent-Torino that techniques developed within integrable models could be used to study the spectra of certain Schrodinger operators via the ODE/IM correspondence was surprising, illuminated an established area in another field, and led to the settling of outstanding conjectures.’

Partecipazione a programmi di ricerca finanziati:

- 1996-2000 : TMR Network ERBCHRXCT920069,
'Integrability, non-perturbative effects, and symmetry in quantum field theory'.
- 2002-2006 : FP5 Network EUCLID, HPRN-CT-2002-00325,
'Integrable models and applications: from strings to condensed matter'.
- 2005-2007 : NATO grant PST.CLG.98042
- 2002-2007 : Iniziativa specifica TO12
- 2008-2013 : Iniziativa specifica PI11
- 2009-2011 : MIUR-PRIN contract 2009KHZKRX-007
- 2013-2016 : UniTo-SanPaolo research grant Nr TO-Call3-2012-0088
'Modern Applications of String Theory' (MAST).
- Dal 2013 : Accordo di ricerca RAI/Dipartimento di Fisica sulla trasmissione radio con fasci OAM
(Responsabile locale).
- Dal 2014 : Iniziative Specifiche FTECP/SFT (Responsabile locale).
- Dal 2016 : Network europeo GATIS+ (responsabile locale).
(<https://gatisplus.desy.de/scientists/>)
- Dal 2018 : Co-chair network europeo GATIS+.
- Dal 2018 : Progetto finanziato dal ministero per la ricerca portoghese
'Irregular connections on algebraic curves and quantum field theory'
(<http://gfm.cii.fc.ul.pt/research/projects/ptdc-mat-pur-30234-2017/>)

Peer Reviewing:

- Nuclear Physics B;
- Physics Letters A and B;
- Journal of Physics A;
- SIGMA;
- Journal of High Energy Physics;
- Journal of Statistical Mechanics;
- Physical Review D;
- Physical Review Letters;
- SciPost.

Insegnamento:

- 1995-1997 : Calculus and Linear Algebra, exercise classes, Durham.
- 1998-2000 : Statistical Mechanics, exercise classes, Amsterdam.
- 2000-2001 : Calculus and Linear Algebra, exercise classes, Durham.
- 2001-2002 : Quantum field theory II, PhD, Durham.
- 2003-2007 : Meccanica e Onde, LT in Scienze dei Materiali, Torino.
- 2004-2006 : Meccanica, Esercizi, LT in Fisica, Torino.
- Dal 2006 : Onde, Fluidi e Termodinamica, Esercitazioni, LT in Fisica, Torino.
- 2007-2008 : Metodi Matematici per la Fisica II, LT in Fisica, Torino.
- 2007-2008 : Fisica Moderna, LT in Ottica e Optometria, Torino.
- 2007-2010 : Meccanica Statistica e Teorie Conformi, Dottorato in Fisica, Torino.
- 2008-2011 : Fisica, LT in Matematica per la Finanza e l'Assicurazione, Torino.
- Dal 2010 : Fisica della Materia Condensata, LM in Fisica, Torino.
- 2012-2013 : Chimica e Fisica, Tirocini Formativi Attivi, Torino.
- Dal 2016 : Fisica, LT in Scienze Naturali.
- Dal 2018 : Complementi di Elettromagnetismo, LT in Fisica, Torino.

Tesi di Laurea Triennale e Magistrale

2006	:	‘Correspondence between integrable models and ODEs’, LM.
2008	:	‘Brownian motion: history, developments and applications’, LT.
2009	:	‘Tsunami propagation in asymptotic approximation’, LT. ‘The Airy beams’, LT. ‘Percolation theory and its applications’, LT. ‘PT-symmetric quantum mechanics’, LT. ‘One-dimensional diffusion in a periodic potential’, LM. ‘Integrable models and the AdS/CFT correspondence’, LM. ‘Quasi-exactly solvable models’, LT.
2010	:	‘Secret key rate in quantum key distribution using optimization on Renyi entropies’, LM. ‘Integrability in N=4 super Yang-Mills’, LM.
2011	:	‘Correspondence between Classical and Quantum Integrability’, LM, (Best thesis 2011 ‘Silver Prize’, UniTo). ‘The Casimir force: an application of the Riemann Zeta function’, LT. ‘2D electron gas: the quantum Hall effect’, LT. ‘Quantum Hamiltonians and the Riemann Zeta function’, LT. ‘The Hofstadter Butterfly’, LT. ‘Criptohermitian Quantum Mechanics’, LT. ‘The Grover algorithm’, LT.
2012	:	‘Physics of the Violin’, LT. ‘Twisted light’, LT. ‘Physics of the Casimir Effect’, LT. ‘Negative specific heat capacity’, LT.
2013	:	‘Onde radio OAM: limiti e potenzialita dell’impiego di fasci Laguerre-Gauss e Bessel-Gauss nelle radiocomunicazioni, LM, in co-tutela con P.Gambino. ‘Evoluzione temporale e approccio all’equilibrio in teorie di campo integrabili’, LM. ‘Proprietà termodinamiche di fermioni ultrafreddi con accoppiamento spin-orbita’, LM. ‘Approccio olografico alle entropie di Renyi e allo spettro di entanglement’, LM. ‘The use of twisted beams in radio communications’, LM, in co-tutela con P.Gambino. ‘Atomi ultrafreddi: teoria ed esperimenti’, LT. ‘Termodinamica del non equilibrio’, LT.
2014	:	‘Integrability and Gauge theory’, LM, (Premio A. Molinari). ‘Localization-delocalization transition and low-energy dynamics in attractive bosonic lattices’, LM. ‘The conformal mapping’, LT.
2015	:	‘Integrability and ODE/IM correspondence’, LM. ‘The quark-antiquark potential and the Thermodynamic Bethe Ansatz’, LM. ‘Integrability and perturbative expansion in gauge theory’, LM. ‘Effetto Hall quantistico e Integrabilità’, LM.
2016	:	‘Non-perturbative results in integrable gauge theories’, LM. (Premio FCA, Premio A. Molinari).
2017	:	‘2D Deformed Quantum Field Theories: the TbarT deformation’, LM.
2018	:	‘Excited states boundary energy in integrable quantum field theories’, LM.
2019	:	‘L’elettrodinamica non lineare di Born-Infeld’, LM.

Studenti di Dottorato:

- Ciclo XXVI : ██████████, ‘Correspondence between Classical and Quantum integrability’,
-2012 Italian-French University award for PhD mobility-,
co-tutela con : Prof. Fedor Smirnov, CNRS-LPTHE.
- Ciclo XXVII : ██████████, ‘The quark-antiquark potential’.
- Ciclo XXVIII : ██████████, ‘Integrability and the AdS/CFT correspondence’.
- Ciclo XXIX : ██████████, ‘Fasci OAM nelle radiocomunicazioni’.
- Ciclo XXXIII : ██████████, ‘Integrability in gauge theory and irrelevant perturbations of 2D QFTs’.
- Ciclo XXXIII : ██████████, ‘Didattica della Fisica: la Meccanica Quantistica’.

Post-Docs:

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Attività organizzativa e altri incarichi:

- Sett. 2002 : Conferenza ‘Third Meeting of the North British Mathematical Physics Seminar’, Durham.
- Lug. 2004 : Conferenza ‘New Frontiers in Quantum Mechanics’, Shizuoka.
- Sett. 2004 : Conferenza ‘CFT and Integrable Models’, Bologna.
- Sett. 2006 : Conferenza ‘5th International Workshop on Pseudo Hermitian Hamiltonians in Quantum Physics’,
Bologna.
- 2005- 2007 : Assieme a ██████████ ho contribuito all’attivazione del corso di laurea triennale
in Ottica e Optometria.
- 2005- 2008 : Membro del comitato per l’assegnazione del premio Lagrange per le scuole superiori.
- 2006- 2012 : Membro del commissione d’esame per l’ammissione al corso di laurea in Ottica e Optometria.
- 2007- 2017 : Presidente del nucleo di valutazione della didattica, Dipartimento di Fisica.
- 2007- 2012 : Membro del nucleo di valutazione della didattica, Facoltà di Scienze.
- 2008- 2011 : Membro del nucleo di valutazione della didattica, Dip. di Matematica.
- 2011- 2017 : Membro della commissione per il riesame, Dip. di Fisica.
- Dal 2013 : Membro del collegio di Dottorato, Dip. di Fisica.
- Dal 2014 : Responsabile locale dell’Iniziativa Specifica FTECP/SFT, INFN
- Dal 2016 : Membro della commissione giudicatrice per concorso di ammissione alla Scuola di
Studi Superiori Ferdinando Rossi, Torino.
- Dal 2017 : Membro della ‘Commissione Spazi’, Dip. di Fisica.
- Dal 2017 : Membro della Commissione Didattica Paritetica, Scuola di Scienze.
- 2017- 2019 : Presidente commissione AdiR e BdiS dell’INFN (21 concorsi)
- Lug. 2019 : Conferenza ‘Irregular Singularities and Quantum Field Theory’, Lisbona.
- Dic. 2019 : Conferenza ‘Integrable effective field theories and their holographic descriptions’, GGI, Firenze.

Sono inoltre stato commissario in un concorso di ammissione al Dottorato di Ricerca a Torino, e in 8 commissioni d’esame finale di dottorato (Amsterdam, Bologna (2), Cosenza, Parma, Parigi, Torino (2)).

Seminari:

Nel periodo 1998 - 2019 ho presentato 2/3 seminari all’anno in Italia e all’estero: Amsterdam, Bologna, Budapest, Cagliari, Canterbury, Cargese, Cortona, Dublin, Durham, Edinburgh, Firenze, Hamburg, Heidelberg, Kyoto, Laiden, Les Houches, London, Lyon, Montreal, Mumbai, Oxford, Parigi, Pohang, Praga, Roma, Rio de Janeiro, Seoul, Shizuoka, Stockholm, St. Louis, Stony Brook, Taipei, Tokyo, Trieste, York, Waterloo, Zurich.

Seminari su invito recenti (2010-2019):

- Conferenza : ‘Physics in the Plane: from condensed matter to strings’.
- Luogo : Ecole de Physique des Houches, Les Houches.
- Data : 28/2/2010 - 5/3/2010
- Titolo del Seminario : ‘AdS/CFT and the Thermodynamic Bethe Ansatz’.

Conferenza : ‘Developments in quantum integrable systems’.
 Luogo : RIMS, Kyoto.
 Data : 14/6/2010 - 16/6/2010
 Titolo del seminario 1 : ‘The ODE/IM correspondence and its applications’.
 Titolo del seminario 2 : ‘Thermodynamic Bethe Ansatz and the AdS/CFT correspondence’.

Conferenza : ‘Integrability in Gauge and String Theories 2010 (IGST10)’.
 Luogo : Nordita, Stockholm.
 Data : 28/7/2010 - 2/7/2010
 Titolo del seminario : ‘TBA and functional relations for the AdS_5/CFT_4 correspondence’.

Conferenza : ‘PTQM 2011 symposium’.
 Luogo : Heidelberg University, Heidelberg.
 Data : 25/9/2011 - 28/9/2011
 Titolo del seminario : ‘Bethe ansatz and nonlinear wave equations’.

Conferenza : ‘British Mathematical Colloquium 2012 Mathematical Physics workshop’.
 Luogo : University of Kent, Canterbury, UK.
 Data : 16/4/2012 - 19/4/2012
 Titolo del seminario : ‘The Bethe ansatz and the Bullough-Dodd equation’.

Conferenza : ‘Integrability in Gauge and String Theories 2013 (IGST13)’.
 Luogo : Utrecht, NL.
 Data : 19/8/2013 - 23/8/2013
 Titolo del seminario : ‘Nambu-Goto string and quark-antiquark potential from TBA’.

Conferenza : ‘Pseudo-Hermitian Hamiltonians in Quantum Physics’.
 Luogo : Koc University, Istanbul, Turkey.
 Data : 2/7/2013 - 6/7/2013
 Titolo del seminario : ‘Spectral singularities in perturbed conformal field theory’.

Conferenza : ‘CFT and Integrability: in memory of Alexei Zamolodchikov’.
 Luogo : Sogang University, Korea.
 Data : 16/12/2013 - 20/12/2013
 Titolo del seminario : ‘The Nambu-Goto string spectrum and the TBA’.

Conferenza : ‘CFT and Integrable models’.
 Luogo : Università di Bologna, Bologna, Italy.
 Data : 15/9/2014 - 18/9/2014
 Titolo del seminario : ‘The quantum spectral curve of the ABJM model’.

Conferenza : ‘Flux tubes’.
 Luogo : Perimeter Institute for Theoretical Physics, Waterloo, Canada.
 Data : 13/5/2015 - 15/5/2015
 Titolo del seminario : ‘Quark-anti-quark potential and the TBA’.

Conferenza : ‘Hidden symmetries and integrability methods in super Yang-Mills theories’
 and their dual string theories.
 Luogo : CRM, Montreal, Canada.
 Data : 3/8/2015 - 14/9/2015
 Titolo del seminario : ‘The Quantum Spectral Curve of the ABJM model’.

Conferenza : ‘Mini-conference on Statistical Physics’.
 Luogo : SISSA, Trieste, Italy.
 Data : 9/10/2015 - 10/9/2015
 Titolo del seminario : ‘A new approach to the finite temperature Hubbard model’.

Luogo : Maths Department, Kings College London, London, UK.
 Data : 22/9/2016
 Titolo del seminario : ‘Non-Wilsonian RG flows and the $T\bar{a}rT$ perturbation of 2D quantum field theories’.

Conferenza : ‘Integrability in gauge theory’.
 Luogo : Ecole Normale Supérieure, Paris, France.
 Data : 7/7/2017 - 21/7/2017
 Titolo del seminario : ‘CDD ambiguity and irrelevant deformations of 2D QFT’.

Conferenza : ‘Exact methods in low dimensional statistical physics’.
 Luogo : Cargèse, France.
 Data : 25/7/2017 - 4/8/2017
 Titolo del seminario : ‘ \overline{TT} perturbation of 2D QFTs’.

Conferenza : ‘Mini-conference on Statistical Physics’.
 Luogo : SISSA, Trieste, Italy .
 Data : 29/9/2017 - 30/9/2017
 Titolo del seminario : ‘ \overline{TT} perturbation of 2D Quantum Field Theories’.

Luogo : ENS, Lyon, France.
 Data : 20/9/2018
 Titolo del seminario : ‘ \overline{TT} -deformed classical and quantum field theories in two dimensions’.

Luogo : ETH, Zurich, Switzerland.
 Data : 31/10/2018
 Titolo del seminario : ‘ \overline{TT} -deformed classical and quantum field theories in two dimensions’.

Evento : Joint ICTP/SISSA seminar.
 Luogo : SISSA, Trieste, Italy.
 Data : 07/11/2018
 Titolo del seminario : ‘ \overline{T} -deformed classical and quantum field theories’.

Conferenza : ‘ \overline{TT} and Other Solvable Deformations of Quantum Field Theories’.
 Luogo : Simons Center, Stony Brook, USA.
 Data : 08/04/2018 - 12/04/2018
 Titolo del seminario : ‘Conserved currents and non-Lorentz invariant effective field theories’.

Lezioni a scuole internazionali e workshops:

Nov. 1999 : Quattro lezioni per studenti di PhD, ‘Integrable models and Thermodynamic Bethe Ansatz’, APCTP, Seoul, Korea.

Dic. 2000 : Tre lezioni per studenti di PhD, ‘The ODE/IM correspondence’, Sissa, Trieste, Italy.

Lug. 2003 : Due lezioni per studenti di PhD e Post-Docs, ‘The thermodynamic Bethe Ansatz’, TMR school, Budapest, Hungary.

Mag. 2005 : Quattro lezioni, ‘Differential equations and Integrable models’, EU network EUCLID, Spring School “New Paths in Theoretical Physics”, Sissa.

Lug. 2007 : Due lezioni, ‘The ODE/IM correspondence’, ZMP, Workshop on the Geometric Langlands Program, Desy, Amburgo, Germany.

Gen. 2008 : Due lezioni, ‘Orientation course on PT-Symmetric quantum mechanics’, Homi Bhabha Centenary Conference on ‘Non-Hermitian Hamiltonians in Quantum Physics’, Mumbai.

Lug. 2014 : Cinque lezioni, ‘Novel approaches to finite-size effects in integrable models’, Research training school on “Quantum groups and integrability - Algebraic, analytic and geometric aspects”, Desy, Hamburg, Germany.

Feb. 2017: Tre lezioni, ‘ODE/IM correspondence’, Young Researchers Integrability School and Workshop 2017, Dublin, Ireland.

Argomenti di ricerca:

Una descrizione più dettagliata del campo e della mia attività di ricerca si trova in coda a questo documento.

- Teorie Conformi;
- Matrici di scattering esatte;
- Integrable quantum field theories with and without boundaries;
- Modelli integrabili su reticolo;
- Il Bethe Ansatz termodinamico;
- La corrispondenza tra modelli integrabili ed equazioni differenziali ordinarie (ODE/IM);
- Aspetti di meccanica quantistica: PT-symmetric QM, exact WKB methods, quasi exactly soluble QM models and Non-Linear Supersymmetry in QM;
- Integrabilità in teorie di gauge e la corrispondenza AdS/CFT;
- Perturbazioni irrilevanti di teorie di campo quantistiche in 2D.

Libro (contributo):

Titolo : PT Symmetry: In Quantum and Classical Physics,
Autori : C. M. Bender et al.,
Anno : 2019,
Casa Editrice : World Scientific Publishing

Publicazioni su rivista con referees:

1. A. Koubek, G. Mussardo, R. Tateo, “Bootstrap trees and consistent S matrices”, Int. J. Mod. Phys. A7 (1992) 3435.
2. F. Ravanini, R. Tateo, A. Valleriani, “Dynkin TBA’s”, Int. J. Mod.Phys. A8 (1993) 1707.
3. F. Ravanini, R. Tateo, A. Valleriani, “A new family of diagonal ADE-related scattering theories”, Phys. Lett. B293 (1992) 361-366.
4. R. Tateo, “The sine-Gordon model as $SO(n)_1SO(n)_1/SO(n)_2$ -perturbed coset theory and generalizations”, Int. J. Mod. Phys. A10 (1995) 1357.
5. F. Ravanini, M. Stanishkov, R. Tateo, “Integrable deformations of CFT with complex parameter: The the M_{35} model and its generalizations”, Int. J. Mod. Phys. A11 (1996) 677.
6. F. Gliozzi, R. Tateo, “ADE functional dilogarithm identities and integrable models”, Phys. Lett. B348 (1995) 84.
7. R. Tateo, “New functional dilogarithm identities and sine-Gordon Y-system ”, Phys. Lett. B355 (1995) 157.
8. F. Gliozzi, R. Tateo, “Thermodynamic Bethe ansatz and threefold triangulations”, Int. J. Mod. Phys. A11 4051, (1996).
9. P. Dorey, R. Tateo, K.E. Thompson, “Massive and massless phases in self-dual Z_N spin models: some exact results from the thermodynamic Bethe ansatz”, Nucl. Phys. B470 (1996) 317.
10. P. Dorey, R. Tateo, “Excited states by analytic continuation of TBA equations”, Nucl. Phys. B482 (1996) 639.
11. P. Dorey, R. Tateo, “Excited states in some simple perturbed conformal field theories”, Nucl. Phys. B515 (1998) 575.
12. P. Dorey, A. Pocklington, R. Tateo, G.M.T. Watts, “TBA and TCSA with boundaries and excited states”, Nucl. Phys. B525 (1998) 641.
13. P. Dorey, R. Tateo, G.M.T. Watts, “Generalizations of the Coleman-Thun mechanism and boundary reflection factors”, Phys. Lett. B448 (1999) 249.
14. P. Dorey, P. Provero, R. Tateo, S. Vinti, “On the phase diagram of the discrete $Z(6)$ spin models”, J. Phys. A32 (1999) L151.
15. P. Dorey, R. Tateo, “Anharmonic oscillators, the Thermodynamic Bethe Ansatz, and nonlinear integral equations”, J. Phys. A32 (1999) L419.
16. R. Caracciolo, F. Gliozzi, R. Tateo, “A topological invariant of RG flows in 2-D integrable Quantum Field Theories”, Int. J. Mod. Phys. B13 (1999) 2927.
17. M. Caselle, R. Tateo, S. Vinti, “Universal amplitude ratios in the 2-D four state Potts model”, Nucl. Phys. B562 (1999) 549.
18. P. Dorey, R. Tateo, “On the relation between Stokes multipliers and the T-Q systems of Conformal Field Theory”, Nucl. Phys. B563 (1999) 573.
19. P. Dorey, I. Runkel, R. Tateo, G.M.T. Watts, “g-function flow in perturbed boundary Conformal Field Theories”, Nucl. Phys. B578 (2000) 85.

20. P. Dorey, R. Tateo, “Differential equations and integrable models: the $SU(3)$ case”, Nucl. Phys. B571 (2000) 583.
21. P. Dorey, C. Dunning, R. Tateo, “New families of flows between two-dimensional conformal field theories”, Nucl. Phys. B578 (2000) 699.
22. P. Dorey, M. Pillin, R. Tateo, G.M.T. Watts, “One-point functions in perturbed boundary conformal field theories”, Nucl. Phys. B594 (2001) 625.
23. P. Dorey, C. Dunning, R. Tateo, “Differential equations for general $SU(n)$ Bethe ansatz systems”, J. Phys. A33 (2000) 8427.
24. P. Dorey, C. Dunning, R. Tateo, “Spectral equivalences, Bethe ansatz equations, and reality properties in PT-symmetric quantum mechanics”, J. Phys. A34 (2001) 5679.
25. P. Dorey, C. Dunning, R. Tateo, “Supersymmetry and the spontaneous breakdown of PT symmetry”, J. Phys. A34 (2001) L391.
26. P. Dorey, A.Pocklington, R.Tateo, “Integrable aspects of the scaling q-Potts models I: bound states and bootstrap closure”, Nucl. Phys. B661 (2003) 425.
27. P. Dorey, A.Pocklington, R.Tateo, “Integrable aspects of the scaling q-Potts models II: finite-size effects”, Nucl. Phys. B661 (2003) 464.
28. A. Babichenko, R. Tateo, “Thermodynamic Bethe ansatz for the AII sigma-models”, Phys. Lett. B573, 239 (2003).
29. P. Dorey, J. Suzuki, R. Tateo, “Finite lattice Bethe ansatz systems and the Heun equation”, J. Phys. A37, 2047 (2004).
30. P. Dorey, D. Fioravanti, C. Rim, R. Tateo, “Integrable quantum field theory with boundaries: The exact g-function”, Nucl. Phys. B696, 445 (2004).
31. P. Dorey, A. Millican-Slater, R. Tateo, “Beyond the WKB approximation in PT-symmetric quantum mechanics”, J. Phys. A38, 1305 (2005).
32. P. Dorey, A. Lishman, C. Rim, R. Tateo, “Reflection factors and exact g functions for purely elastic scattering theories”, Nucl. Phys B744, 239 (2006).
33. P. Dorey, C. Dunning, D. Masoero, J. Suzuki, R. Tateo, “Pseudo-differential equations, and the Bethe ansatz for the classical Lie algebras”, Nucl. Phys. B772, 249 (2007).
34. P. Dorey, C. Dunning, R. Tateo, “The ODE/IM correspondence ”, J. Phys. A40, R205 (2007), [hep-th/0703066].
35. P. Dorey, C. Dunning, F.Gliozzi, R. Tateo, “On the ODE/IM correspondence for minimal models”, J. Phys. A41, 132001 (2008), [arXiv:0712.2010].
36. D. Bombardelli, D. Fioravanti, R. Tateo, “Thermodynamic Bethe Ansatz for planar AdS/CFT: a proposal”, J. Phys. A42 , 375401 (2009), [arXiv:0902.3930].
37. P. Dorey, C. Dunning, A. Lishman, R. Tateo, “PT symmetry breaking and exceptional points for a class of inhomogeneous complex potentials”, J. Phys. A42, 465302 (2009), [arXiv:0907.3673].
38. P. Dorey, C. Rim, R. Tateo, “Exact g-function flow between conformal field theories”, Nucl. Phys. B834, 485 (2010), [arXiv:0911.4969].
39. D. Bombardelli, D. Fioravanti, R. Tateo, “TBA and Y-system for planar AdS_4/CFT_3 ”, Nucl. Phys. B834, 543 (2010), [arXiv:0912.4715].
40. A. Cavaglià, D. Fioravanti, R. Tateo, “Extended Y-system for the AdS_5/CFT_4 correspondence”, Nucl. Phys. B843: 302 (2011), [arXiv:1005.3016].
41. T. Nakanishi, R. Tateo, “Dilogarithm identities for sine-Gordon and reduced sine-Gordon Y-systems”, SIGMA 6: 085 (2010), [arXiv:1005.4199 [math.QA]].
42. P. Dorey, R. Tateo, R. Wilbourne, “Exact g-function flows from the staircase model”, Nucl. Phys. B843, 724 (2011), [arXiv:1008.1190].
43. P. Dorey, C. Dunning, R. Tateo, “Quasi-exact solvability, resonances and trivial monodromy in ordinary differential equations”, J.Phys. A45 , 444013 (2012), [arXiv:1209.4736].
44. P. Dorey, S. Faldella, S. Negro, R. Tateo, “The Bethe Ansatz and the Tzitzéica-Bullough-Dodd equation”, Phil. Trans. A371 (2013) 23, [arXiv:1209.5517].
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