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personal information

birth date: 1966/10/04
birth place: Tehran, IRAN
nationality: Iranian

education

- **BSc of electronics engineering:** 1984/10 – 1989/02, Tehran University, Tehran, IRAN
- **MSc of physics:** 1989/02 – 1991/02, Sharif University of Technology, Tehran, IRAN
- **PhD of physics:** 1991/02 – 1993/11, Sharif University of Technology, Tehran, IRAN

employment

- researcher in the Institute for Studies in Theoretical Physics and Mathematics, Tehran, IRAN: 1993/11 – 2001/09
- assistant professor in Tehran University, Tehran, IRAN: 1994/06 – 1998/03
- assistant professor in the Institute for Advanced Studies in Basic Sciences, Zanzan, IRAN: 1998/04 – 1999/08
- associate professor in the Institute for Advanced Studies in Basic Sciences, Zanzan, IRAN: 1999/09 – 2003/12
- associate professor in Alzahra University, Tehran, IRAN: 2004/01
- professor of physics in Alzahra University, Tehran, IRAN: 2004/02 –

professional interests

- teaching
- outreach (especially writing scientific texts)
- research

courses that I have taught

- mathematical physics
- classical mechanics
- thermodynamics
- quantum mechanics
- electromagnetism and electrodynamics
- statistical mechanics
- general mathematics (calculus)
- general relativity
- quantum field theory
- physical chemistry
- general physics
- classical field theory
- waves
- special relativity
- mechanics of continuous media
- electronics
- optics
- astrophysics
- history of science
- English for special purposes
- engineering mathematics
- differential equations
- particle physics

books (in Persian) on my web page

<http://mamwad.org/xb.htm>

- linear algebra (3rd edition)
(2016/05/10)
<http://mamwad.org/xb/xb-001-3.pdf>
- geometry
(2016/08/20)
<http://mamwad.org/xb/xb-002-1.pdf>
- classical mechanics
(2022/07/07)
<http://mamwad.org/xb/xb-003-1.pdf>

educational texts (in Persian) on my web page

- educational papers
<http://mamwad.org/x1.htm>
- short notes on facts, history, and culture of physics
<http://mamwad.org/x2.htm>

research topics

- general relativity
- discrete physics
- integrability and quantum groups
- two-dimensional gauge theories
- stochastic processes
- conformal and logarithmic-conformal theories
- noncommutative geometry
- surface physics

research papers

1. **M. Khorrami & R. Mansouri**
Spherically symmetric thin walls
Physical Review D **44**, 2 (15 July 1991) 557–559
DOI: 10.1103/PhysRevD.44.557
2. **M. Khorrami & R. Mansouri**
Cylindrically symmetric thin walls in general relativity
Journal of Mathematical Physics **35**, 2 (February 1994) 951–958
DOI: 10.1063/1.530623
3. **M. Khorrami**
Exact solution of the most general minimally coupled one dimensional lattice gauge theories
International Journal of Theoretical Physics **33**, 12 (December 1994) 2297–2316
DOI: 10.1007/BF00673958
4. **M. Khorrami, A. Shariati, M. R. Abolhassani, & A. Aghamohammadi**
A triangular deformation of the two-dimensional Poincaré algebra
Modern Physics Letters A **10**, 11 (10 April 1995) 873–883
DOI: 10.1142/S0217732395000958
5. **A. Aghamohammadi, M. Khorrami, & A. Shariati**
Jordanian deformation of $SL(2)$ as a contraction of the Drinfeld-Jimbo deformation of $SL(2)$
Journal of Physics A **28**, 8 (21 April 1995) L225–L231
DOI: 10.1088/0305-4470/28/8/001
6. **M. Khorrami**
A general formulation of discrete-time quantum mechanics, restrictions on the action and the relation of unitarity to the existence theorem for initial-value problem
Annals of Physics **224**, 1 (15 November 1995) 951–958
DOI: 10.1006/aphy.1995.1108
7. **A. Shariati, A. Aghamohammadi, & M. Khorrami**
The universal R matrix for the Jordanian deformation of $sl(2)$, and the contracted forms of $so(4)$
Modern Physics Letters A **11**, 3 (30 January 1996) 187–197
DOI: 10.1142/S0217732396000229
8. **M. Khorrami**
Phase transition in one-dimensional lattice gauge theories
International Journal of Theoretical Physics **35**, 3 (March 1996) 557–568
DOI: 10.1007/BF02082823

9. **M. Khorrami, R. Mansouri, & M. Mohazzab**
A decrumpling model of the universe
Helvetica Physica Acta **69**, 3 (November 1996) 237–240
10. **R. Mansouri & M. Khorrami**
The equivalence of Darmois-Israel- and distributional method for thin shells in general relativity
Journal of Mathematical Physics **37**, 11 (November 1996) 5672–5683
DOI: 10.1063/1.531740
11. **A. Aghamohammadi, M. Khorrami, & A. Shariati**
Toda theories as contractions of affine Toda theories
Physics Letters **B389**, 2 (12 December 1996) 260–263
DOI: 10.1016/S0370-2693(96)01268-3
12. **M. Khorrami**
Symmetries in discrete-time mechanics
Annals of Physics **252**, 2 (15 December 1996) 357–361
DOI: 10.1006/aphy.1996.0136
13. **M. Khorrami, A. Shariati, & A. Aghamohammadi**
 $SL_h(2)$ -symmetric torsionless connections
Letters in Mathematical Physics **40**, 1 (April 1997) 95–99
DOI: 10.1023/A:1007369432002
14. **M. Alimohammadi & M. Khorrami**
 n -Point functions of 2d Yang-Mills theories on Riemann surfaces
International Journal of Modern Physics **A12**, 11 (30 April 1997) 1959–1965
DOI: 10.1142/S0217751X97001237
15. **A. Aghamohammadi, M. Alimohammadi, & M. Khorrami**
A pseudo-conformal representation of the Virasoro algebra
Modern Physics Letters **A12**, 18 (14 June 1997) 1349–1353
DOI: 10.1142/S0217732397001369
16. **M. R. Rahimi Tabar, A. Aghamohammadi, & M. Khorrami**
The logarithmic conformal field theories
Nuclear Physics **B497**, 1,2 (21 June 1997) 555–566
DOI: 10.1016/S0550-3213(97)00230-7
17. **A. Shafiekhani & M. Khorrami**
Exactly and quasi-exactly solvable models on the basis of $OSp(2|1)$
Modern Physics Letters **A12**, 22 (20 July 1997) 1655–1661
DOI: 10.1142/S0217732397001680

18. **M. Khorrami & A. Alimohammadi**
 Observables of the generalized 2-D Yang-Mills theories on arbitrary surfaces: a path integral approach
Modern Physics Letters A **12**, 30 (28 September 1997) 2265–2270
DOI: 10.1142/S0217732397002338
19. **A. Alimohammadi & M. Khorrami**
 Greens functions of 2-dimensional Yang-Mills theories on nonorientable surfaces
Zeitschrift für Physik C **76**, 4 (December 1997) 729–731
DOI: 10.1007/s002880050594
20. **A. Alimohammadi, M. Khorrami, & A. Aghamohammadi**
 Large- N limit of the generalized two-dimensional Yang-Mills theories
Nuclear Physics B **510**, 1,2 (19 January 1998) 313–323
DOI: 10.1016/S0550-3213(98)81016-X
21. **M. Khorrami, A. Aghamohammadi, & M. R. Rahimi Tabar**
 Logarithmic conformal theories with continuous weights
Physics Letters B **419**, 1–4 (12 February 1998) 179–185
DOI: 10.1016/S0370-2693(97)01426-3
22. **M. Alimohammadi, V. Karimipour, & M. Khorrami**
 Exact solution of a one-parameter family of asymmetric exclusion processes
Physical Review E **57**, 6 (June 1998) 6370–6376
DOI: 10.1103/PhysRevE.57.6370
23. **M. Khorrami, A. Aghamohammadi, & M. Alimohammadi**
 Derivation of quantum theories: Symmetries and the exact solution of the derived system
International Journal of Modern Physics A **13**, 16 (30 June 1998) 2833–2840
DOI: 10.1142/S0217751X98001438
24. **M. Khorrami, A. Aghamohammadi, & A. M. Ghezelbash**
 Logarithmic $N=1$ superconformal field theories
Physics Letters B **13**, 3,4 (5 November 1998) 283–288
DOI: 10.1016/S0370-2693(98)01029-6
25. **M. Khorrami & A. Aghamohammadi**
 Derivation of theories: structures of the derived system in terms of those of the original system in classical mechanics
Il Nuovo Cimento B **113**, 11 (November 1998) 1361–1371

26. **V. Karimipour & M. Khorrami**
Anisotropic Heisenberg magnet with long-range interactions. Integrability and phase structure
International Journal of Theoretical Physics **38**, 3 (March 1999) 971–984
DOI: 10.1023/A:1026681624348
27. **A. Aghamohammadi, M. Alimohammadi, & M. Khorrami**
Uniqueness of the minimum of the free energy of the 2-D Yang-Mills theory at large N
Modern Physics Letters A **14**, 12 (10 April 1999) 751–758
DOI: 10.1142/S0217732399000791
28. **A. M. Ghezelbash, M. Khorrami, & A. Aghamohammadi**
Logarithmic conformal field theories and AdS correspondence
International Journal of Modern Physics A **14**, 16 (30 June 1999) 2581–2591
DOI: 10.1142/S0217751X99001287
29. **R. Mansouri, F. Nasser, & M. Khorrami**
Effective time variation of G in a model universe with variable space dimension
Physics Letters A **259**, 3, 4 (16 August 1999) 194–200
DOI: 10.1016/S0375-9601(99)00449-1
30. **F. Roshani & M. Khorrami**
Asymmetric one-dimensional exclusion processes: A two-parameter exactly solvable example
Physical Review E **60**, 3 (September 1999) 3393–3395
DOI: 10.1103/PhysRevE.60.3393
31. **A. Shariati & M. Khorrami**
Equivalence principle and radiation by a uniformly accelerated charge
Foundations of Physics Letters **12**, 5 (October 1999) 427–439
DOI: 10.1023/A:1021677226637
32. **M. Alimohammadi, V. Karimipour, & M. Khorrami**
A two-parametric family of exclusion processes and its exact solution
Journal of Statistical Physics **97**, 1,2 (October 1999) 373–394
DOI: 10.1023/A:1004631505288
33. **M. Khorrami & M. Alimohammadi**
Large-N limit of the generalized 2D Yang-Mills theory on cylinder
Nuclear Physics B **577**, 3 (26 June 2000) 609–618
DOI: 10.1016/S0550-3213(00)00111-5

34. **M. Khorrami & V. Karimipour**
Exact determination of the phase structure of a multi-species asymmetric exclusion process
Journal of Statistical Physics **100**, 5,6 (September 2000) 999–1030
DOI: 10.1023/A:1018758907902
35. **A. Aghamohammadi, A. H. Fatollahi, M. Khorrami, & A. Shariati**
Multispecies reaction-diffusion systems
Physical Review **E62**, 4 (October 2000) 4642–4649
DOI: 10.1103/PhysRevE.62.4642
36. **A. Aghamohammadi & M. Khorrami**
Similarity transformation in one-dimensional reaction-diffusion systems: the voting model as an example
Journal of Physics **A33**, 44 (10 November 2000) 7843–7856
DOI: 10.1088/0305-4470/33/44/301
37. **K. Saaidi & M. Khorrami**
Nonlocal two-dimensional Yang-Mills- and generalized Yang-Mills-theories
International Journal of Modern Physics **A15**, 30 (10 December 2000) 4749–4760
DOI: 10.1142/S0217751X0000197X
38. **F. Kheirandish & M. Khorrami**
Logarithmic two-dimensional spin-1/3 fractional supersymmetric conformal field theories and the two-point functions
European Physical Journal **C18**, 4 (5 February 2001) 795–797
DOI: 10.1007/s100520100542
39. **M. Alimohammadi & M. Khorrami**
On the phase structure of two-dimensional generalized Yang-Mills theories
Nuclear Physics **B597**, 1–3 (12 March 2001) 652–664
DOI: 10.1016/S0550-3213(00)00730-6
40. **M. Khorrami & A. Aghamohammadi**
Phase transition in an asymmetric generalization of the zero-temperature Glauber model
Physical Review **E63**, 4 (April 2001) 042102
DOI: 10.1103/PhysRevE.63.042102
41. **F. Kheirandish & M. Khorrami**
Two-dimensional fractional supersymmetric conformal field theories and the two-point functions
International Journal of Modern Physics **A16**, 12 (10 May 2001) 2165–2173
DOI: 10.1142/S0217751X01004219

42. **F. Kheirandish & M. Khorrami**
 Two-dimensional fractional supersymmetric conformal- and logarithmic conformal- field theories and the two-point functions
European Physical Journal C **20**, 3 (18 May 2001) 593–597
 DOI: 10.1007/s100520100671
43. **F. Roshani & M. Khorrami**
 Solvable multi-species reaction-diffusion processes
Physical Review E **64**, 1 (July 2001) 011101
 DOI: 10.1103/PhysRevE.64.011101
44. **A. Aghamohammadi & M. Khorrami**
 Phase transitions in autonomous reaction-diffusion systems on a one-dimensional lattice with boundaries
Journal of Physics A **34**, 37 (21 September 2001) 7431–7439
 DOI: 10.1088/0305-4470/34/37/301
45. **N. Majd, A. Aghamohammadi, & M. Khorrami**
 Phase transition in an asymmetric generalization of the zero-temperature q -state Potts model
Physical Review E **64**, 4 (October 2001) 046105
 DOI: 10.1103/PhysRevE.64.046105
46. **M. Alimohammadi, M. Khorrami, & A. Aghamohammadi**
 Exactly solvable models through the empty interval method
Physical Review E **64**, 5 (November 2001) 056116
 DOI: 10.1103/PhysRevE.64.056116
47. **A. Shariati, M. Khorrami, & A. Aghamohammadi**
 Autonomous multispecies reaction-diffusion systems with more-than-two-site interactions
Physical Review E **64**, 6 (December 2001) 066102
 DOI: 10.1103/PhysRevE.64.066102
48. **F. Roshani & M. Khorrami**
 Annihilation-diffusion processes: an exactly solvable model
Journal of Mathematical Physics **43**, 5 (May 2002) 2627–2635
 DOI: 10.1063/1.1466532
49. **K. Saaidi & M. Khorrami**
 Large- N limit of the non-local Yang-Mills and generalized Yang-Mills theories on a cylinder
European Physical Journal C **23**, 4 (14 May 2002) 757–760
 DOI: 10.1007/s100520200906

50. **M. Khorrami & A. Aghamohammadi**
 Dynamical phase transitions of a one-dimensional kinetic Ising model with boundaries
Physical Review E **65**, 5 (May 2002) 056129
DOI: 10.1103/PhysRevE.65.056129
51. **M. Khorrami, A. Aghamohammadi, & M. Alimohammadi**
 Exactly solvable models through the empty interval method, for more-than-two-site interactions
Journal of Physics A **36**, 2 (17 January 2003) 345–357
DOI: 10.1088/0305-4470/36/2/304
52. **A. Aghamohammadi, M. Alimohammadi, & M. Khorrami**
 Exactly solvable models through the generalized empty interval method, for multi-species interactions
European Physical Journal B **31**, 3 (13 February 2003) 371–378
DOI: 10.1140/epjb/e2003-00044-4
53. **N. Abed-Pour, A. Aghamohammadi, M. Khorrami, & M. Reza Rahimi Tabar**
 Discrete scale invariance and its logarithmic extension
Nuclear Physics B **655**, 3 [FS] (14 April 2003) 342–352
DOI: 10.1016/S0550-3213(03)00084-1
54. **M. Khorrami, M. Alimohammadi, & A. Shariati**
 Spin 0 and spin 1/2 quantum relativistic particles in a constant gravitational field
Annals of Physics **304**, 2 (April 2003) 91–102
DOI: 10.1016/S0003-4916(03)00016-2
55. **M. Khorrami & A. Aghamohammadi**
 Static- and dynamical-phase transition in one-dimensional reaction-diffusion systems with boundaries
Brazilian Journal of Physics **33**, 3 (September 2003) 421–430
DOI: 10.1590/S0103-97332003000300002
56. **F. Roshani & M. Khorrami**
 Solvable multi-species extensions of the drop-push model
European Physical Journal B **36**, 1 (November 2003) 99–104
DOI: 10.1140/epjb/e2003-00321-2
57. **F. Roshani & M. Khorrami**
 Exclusion processes and boundary conditions
Modern Physics Letters B **18**, 1 (10 January 2004) 1–9
DOI: 10.1142/S0217984904006664

58. **A. Aghamohammadi & M. Khorrami**
 Dynamical phase transition in the two-point functions of the autonomous one-dimensional single-species reaction-diffusion systems
European Physical Journal B **37**, 2 (January 2004) 193–198
 DOI: 10.1140/epjb/e2004-00046-8
59. **A. Aghamohammadi & M. Khorrami**
 Exactly solvable models through the generalized empty interval method: multi-species and more-than-two-site interactions
International Journal of Modern Physics B **18**, 14 (10 June 2004) 2047–2055
 DOI: 10.1142/S0217979204025130
60. **M. Khorrami & A. Aghamohammadi**
 Perturbative calculation of one-point functions of one-dimensional single-species reaction-diffusion systems
Physical Review E **70**, 1 (July 2004) 011103
 DOI: 10.1103/PhysRevE.70.011103
61. **M. Alimohammadi & M. Khorrami**
 Large- N limit of the two-dimensional Yang-Mills theory on surfaces with boundaries
Nuclear Physics B **696**, 1,2 (September 2004) 55–65
 DOI: 10.1016/j.nuclphysb.2004.07.006
62. **F. Roshani, A. Aghamohammadi, & M. Khorrami**
 Static and dynamic phase transitions in multidimensional voting models on continua
Physical Review E **70**, 5 (November 2004) 056128
 DOI: 10.1103/PhysRevE.70.056128
63. **F. Roshani & M. Khorrami**
 Asymmetric one-dimensional exclusion processes: a two-parameter discrete-time exactly solvable model
Journal of Physics: Condensed Matter **17**, 14 (13 April 2005) S1269–S1273
 DOI: 10.1088/0953-8984/17/14/016
64. **F. Roshani & M. Khorrami**
 A family of discrete-time exactly-solvable exclusion processes on a one-dimensional lattice
European Physical Journal B **45**, 3 (June 2005) 399–404
 DOI: 10.1140/epjb/e2005-00193-4
65. **A. Aghamohammadi & M. Khorrami**
 Models solvable through the empty-interval method
European Physical Journal B **47**, 4 (October 2005) 583–586
 DOI: 10.1140/epjb/e2005-00358-1

66. **M. Khorrami & M. Alimohammadi**
 Large- N behavior of the Wilson loops of generalized two-dimensional Yang-Mills theories
Nuclear Physics B **733**, 1,2 (16 January 2006) 123–131
 DOI: 10.1016/j.nuclphysb.2005.11.008
67. **M. Alimohammadi & M. Khorrami**
 Phase transitions of large- N two-dimensional Yang-Mills and generalized Yang-Mills theories in the double scaling limit
European Physical Journal C **47**, 2 (August 2006) 507-512
 DOI: 10.1140/epjc/s2006-02556-0
68. **M. Khorrami & A. Aghamohammadi**
 Phase transition in annihilation-limited processes
European Physical Journal B **56**, 3 (April 2007) 223-227
 DOI: 10.1140/epjb/e2007-00102-y
69. **L. F. Matin, A. Aghamohammadi, & M. Khorrami**
 Exactly solvable reaction diffusion models on a Cayley tree
European Physical Journal B **56**, 3 (April 2007) 243-246
 DOI: 10.1140/epjb/e2007-00103-x
70. **M. Khorrami & M. Alimohammadi**
 Non-Douglas-Kazakov phase transition of two-dimensional generalized Yang-Mills theories
European Physical Journal C **51**, 1 (June 2007) 193-197
 DOI: 10.1140/epjc/s10052-007-0287-6
71. **A. H. Fatollahi & M. Khorrami**
 Field theories on spaces with linear fuzziness
Europhysics Letters **80**, 2 (October 2007) 20003
 DOI: 10.1209/0295-5075/80/20003
72. **A. Shariati, M. Khorrami, & A. H. Fatollahi**
 TeV-photon paradox and space with SU(2) fuzziness
Europhysics Letters **81**, 4 (February 2008) 40003
 DOI: 10.1209/0295-5075/81/40003
73. **H. Komaie-Moghaddam, A. H. Fatollahi, & M. Khorrami**
 Field theory amplitudes in a space with SU(2) fuzziness
European Physical Journal C **53**, 4 (February 2008) 679–688
 DOI: 10.1140/epjc/s10052-007-0484-3
74. **H. Komaie-Moghaddam, M. Khorrami, & A. H. Fatollahi**
 Loop diagrams in space with SU(2) fuzziness
Physics Letters B **661**, 2–3 (20 March 2008) 226–232
 DOI: 10.1016/j.physletb.2008.02.002

75. **A. Aghamohammadi & M. Khorrami**
 The Fokker-Planck equation, and stationary densities
International Journal of Theoretical Physics **47**, 6 (June 2008) 1630–1638
 DOI: 10.1007/s10773-007-9605-x
76. **L. Lavaei-Yanesi & M. Khorrami**
 Phase structure of the quartic-cubic generalized two dimensional Yang Mills $U(N)$ on the sphere
Journal of Mathematical Physics **49**, 7 (July 2008) 073514
 DOI: 10.1063/1.2956500
77. **A. H. Fatollahi, A. Shariati, & M. Khorrami**
 Quantum mechanics on space with $SU(2)$ fuzziness
European Physical Journal **C60**, 3 (April 2009) 489–494
 DOI: 10.1140/epjc/s10052-009-0924-3
78. **M. Khorrami, A. H. Fatollahi, & A. Shariati**
 Poisson structure on a space with linear $SU(2)$ fuzziness
Journal of Mathematical Physics **50**, 7 (July 2009) 072902
 DOI: 10.1063/1.3166143
79. **A. Aghamohammadi & M. Khorrami**
 Nonuniform autonomous one-dimensional exclusion nearest-neighbor reaction-diffusion models
European Physical Journal **B74**, 2 (March 2010) 159–164
 DOI: 10.1140/epjb/e2010-00061-2
80. **A. Shariati, M. Khorrami, & A. H. Fatollahi**
 Statistical mechanics of free particles on space with Lie type noncommutativity
Journal of Physics **A43**, 28 (16 July 2010) 285001
 DOI: 10.1088/1751-8113/43/28/285001
81. **M. Khorrami & A. Aghamohammadi**
 Dynamical phase transition in one-dimensional kinetic Ising model with nonuniform coupling constants
Journal of Statistical Mechanics: Theory and Experiment (October 2010) P10019
 DOI: 10.1088/1742-5468/2010/10/P10019
82. **L. Ramezan & M. Khorrami**
 Spin 0 and spin 1/2 particles in a spherically symmetric static gravity and a Coulomb field
International Journal of Theoretical Physics **49**, 11 (November 2010) 2918–2928
 DOI: 10.1007/s10773-010-0484-1

83. **Amir H. Fatollahi, Mohammad Khorrami, Ahmad Shariati, & Amir Aghamohammadi**
 Classification of matrix-product ground states corresponding to one-dimensional chains of two-state sites of nearest neighbor interactions
Physical Review A **83**, 4 (April 2011) 042108
 DOI: 10.1103/PhysRevA.83.042108
84. **Amir Aghamohammadi & Mohammad Khorrami**
 Nonuniform autonomous one-dimensional exclusion nearest-neighbor reaction-diffusion models
Journal of Physics A **44**, 34 (28 August 2011) 345002
 DOI: 10.1088/1751-8113/44/34/345002
85. **Mohammad Khorrami, Ahmad Shariati, Amir Aghamohammadi, & Amir H. Fatollahi**
 Lack of anomalous diffusion in linear translationally-invariant systems determined by only one initial condition
Physics Letters A **376**, 5 (16 January 2012) 687–691
 DOI: 10.1016/j.physleta.2011.10.076
86. **Amir Aghamohammadia, Cina Aghamohammadi, & Mohammad Khorrami**
 Externally driven one-dimensional Ising model
Journal of Statistical Mechanics: Theory and Experiment (February 2012) P02004
 DOI: 10.1088/1742-5468/2012/02/P02004
87. **A. A. Masoudi, S. Hosseinabadi, J. Davoudi, M. Khorrami, & M. Kohandel**
 Statistical analysis of radial interface growth
Journal of Statistical Mechanics: Theory and Experiment (February 2012) L02001
 DOI: 10.1088/1742-5468/2012/02/L02001
88. **M. Khorrami & A. Aghamohammadi**
 Autonomous models solvable through the full interval method
European Physical Journal B **85**, 4 (April 2012) 134
 DOI: 10.1140/epjb/e2012-20979-3
89. **Mohammad Khorrami & Amir Aghamohammadi**
 One-dimensional kinetic Ising model with nonuniform coupling constants
International Journal of Theoretical Physics **51**, 5 (May 2012) 1529–1537
 DOI: 10.1007/s10773-011-1029-y

90. **Amir Aghamohammadi & Mohammad Khorrami**
 The spectrum and the phase transition of models solvable through the full interval method
Journal of Statistical Mechanics: Theory and Experiment (July 2012) P07023
DOI: 10.1088/1742-5468/2012/07/P07023
91. **Ahmad Shariati, Mohammad Khorrami, & Amir H. Fatollahi**
 Dirac theory on a space with linear Lie type fuzziness
International Journal of Modern Physics A **27**, 20 (10 August 2012) 1250105
DOI: 10.1142/S0217751X12501059
92. **A. A. Masoudi, M. Khorrami, M. Stastna, & M. Kohandel**
 Dynamics of radial fractional growing surfaces
Europhysics Letters **100**, 1 (October 2012) 16004
DOI: 10.1209/0295-5075/100/16004
93. **Mohammad Khorrami**
 Comment on “Trouble with the Lorentz law of force: incompatibility with special relativity and momentum conservation”
Physical Review Letters **110**, 8 (22 February 2013) 089404
DOI: 10.1103/PhysRevLett.110.089404
94. **Mohammad Khorrami, Amir H. Fatollahi, & Ahmad Shariati**
 Gauge theory on a space with linear Lie type fuzziness
International Journal of Modern Physics A **28**, 8 (30 March 2013) 1350021
DOI: 10.1142/S0217751X13500218
95. **Amir H. Fatollahi, Ahmad Shariati, & Mohammad Khorrami**
 On the relation between the spin and the magnetic moment of the proton
Chinese Journal of Physics **51**, 3 (June 2013) 435–440
DOI: 10.6122/CJP.51.435
96. **Amir Aghamohammadi, Amir H. Fatollahi, Mohammad Khorrami, & Ahmad Shariati**
 Entropy as a measure of diffusion
Physics Letters A **377**, 28–30 (15 October 2013) 1677–1681
DOI: 10.1016/j.physleta.2013.05.15
97. **Mohammad Khorrami & Amir Aghamohammadi**
 A suspended rope wrapped around a cylinder
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