

Сергей Евгеньевич Коршунов



2 января 2016 после тяжелой болезни скончался ведущий научный сотрудник Сектора квантовой мезоскопии ИТФ Коршунов Сергей Евгеньевич.

Сергей Евгеньевич окончил МФТИ в 1982 г. Работал в ИТФ с 1985 г.

Кандидат физико-математических наук (1985), диссертация: Физические свойства поверхности квантового кристалла (научный руководитель: С.В. Иорданский).

Доктор физико-математических наук (2005), диссертация: [Фазовые переходы в двумерных и слоистых системах с непрерывным вырождением](#).

Область научных интересов последних лет: фазовые переходы в двумерных системах, решётки джозефсоновских контактов, неколлинеарные магнетики, пиннинг в случайном потенциале, границы раздела фаз в гелии.

Публикации по тематике (с полнотекстовыми ссылками):

QUANTUM LIQUIDS (1982-1991, 2002)

- S.E. Korshunov
Surface spin waves in $^3\text{He-B}$
Zh. Eksp. Teor. Fiz. 83, 1788 (1982) [[Sov. Phys. JETP 56, 1034 \(1982\)](#)]
- S.E. Korshunov
Two-dimensional superfluid Fermi-liquid with p-pairing
Zh. Eksp. Teor. Fiz. 89, 531 (1985) [[Sov. Phys. JETP 62, 301 \(1985\)](#)]
- S.E. Korshunov
Boundary conditions and acoustic coefficients for an HeII - vapor interface
Zh. Eksp. Teor. Fiz. 92, 1322 (1987) [[Sov. Phys. JETP 65, 741 \(1987\)](#)]
- S.E. Korshunov
Instability of superfluid Helium free surface in the presence of heat flow
[Europhys. Lett. 16, 673 \(1991\)](#)
- S.E. Korshunov
Analog of Kelvin-Helmholtz instability on superfluid liquid free surface
[75, 496 \(2002\) \[JETP Lett. 75, 423 \(2002\); arXiv:cond-mat/0203374\]](#)

QUANTUM CRYSTALS (1982-1989, 2009)

- S.E. Korshunov and A.V. Smirnov
Damping of crystallization waves in $^3\text{He-B}$ at low temperatures
Zh. Eksp. Teor. Fiz. 83, 2128 (1982) [[Sov. Phys. JETP 56, 1234 \(1982\)](#)]
- S.V. Iordansky, S.E. Korshunov and I.A. Larkin
Phenomenological derivation of the boundary conditions at the interface between superfluid liquid and solid body
Zh. Eksp. Teor. Fiz. 83, 2110 (1982) [[Sov. Phys. JETP 56, 1224 \(1982\)](#)]
- S.V. Iordansky and S.E. Korshunov
Quantum effects in roughening transition
[Pis'ma ZhETF 38, 542 \(1983\)](#) [[JETP Lett. 38, 655 \(1983\)](#)]
- S.V. Iordansky and S.E. Korshunov
Quantum models of crystal surface
Zh. Eksp. Teor. Fiz. 87, 927 (1984) [[Sov. Phys. JETP 60, 528 \(1984\)](#)]
- S.V. Iordansky and S.E. Korshunov
Phase transitions on quantum crystal surface
[Pis'ma ZhETF 39, 466 \(1984\)](#) [[JETP Lett. 39, 567 \(1984\)](#)]
- S.V. Iordansky and S.E. Korshunov
Phase transitions on quantum crystal interfaces
[J. Low Temp. Phys. 58, 425 \(1985\)](#)
- S.E. Korshunov
Collisionless friction mechanism for linear defects in quantum crystals
Zh. Eksp. Teor. Fiz. 90, 2118 (1986) [[Sov. Phys. - JETP 63, 1242 \(1986\)](#)]
- S.E. Korshunov
On dynamics of quantum crystal growth
Zh. Eksp. Teor. Fiz. 91, 1466 (1986) [[Sov. Phys. JETP 64, 864 \(1986\)](#)]
- S.E. Korshunov
Transition to the superfluid state of a step on a quantum crystal free surface
Zh. Eksp. Teor. Fiz. 95, 2163 (1989) [[Sov. Phys. JETP 68, 1250 \(1989\)](#)]
- S.E. Korshunov
Two-level systems and mass deficit in quantum solids
[Pis'ma ZhETF 90, 167 \(2009\)](#) [[JETP Letters 90, 156 \(2009\)](#)]; arXiv:0906.4627]

MACROSCOPIC QUANTUM TUNNELLING (1987-1989)

- S.E. Korshunov
Quantum-mechanical tunnelling with dissipation in a tilted cosine potential
Zh. Eksp. Teor. Fiz. 92, 1828 (1987) [[Sov. Phys. JETP 65, 1025 \(1987\)](#)]
- S.E. Korshunov
Mobility of a dissipative quantum system in a periodic potential
Zh. Eksp. Teor. Fiz. 93, 1526 (1987) [[Sov. Phys. JETP 66, 872 \(1987\)](#)]
- S.E. Korshunov
Coherent and incoherent tunnelling in a Josephson junction with a "periodic" dissipation
[Pis'ma ZhETF 45, 342 \(1987\)](#) [[JETP Lett. 45, 434 \(1987\)](#)]
- S.E. Korshunov
Quantum diffusion of vortices in 2D lattice systems
[Pis'ma ZhETF 46, 385 \(1987\)](#) [[JETP Lett. 46, 485 \(1987\)](#)]
- S.E. Korshunov
Intersite vortex tunnelling in 2D lattice systems
[Physica B 152, 261 \(1988\)](#)
- S.E. Korshunov
Compressibility influence on quantum decay of metastable phase at low temperatures
[Fiz. Nizk. Temp. 14, 575-79 \(1988\)](#) [[Sov. J. Low Temp. Phys. 14, 316 \(1988\)](#)]

- S.E. Korshunov
Effect of dissipation on the low-temperature properties of a tunnel-junction chain
[Zh. Eksp. Teor. Fiz. 95, 1058 \(1989\) \[Sov. Phys. JETP 68, 609 \(1989\)\]](#)
- S.E. Korshunov
Phase diagram of a chain of dissipative Josephson junctions
[Europhys. Lett. 9, 107 & 839E \(1989\)](#)

2D QUANTUM ISING AND DIMER MODELS (2011-2012)

- T.Coletta, J.-D. Picon, S.E. Korshunov and F. Mila
Phase diagram of the fully frustrated transverse-field Ising model on the honeycomb lattice
[Phys. Rev. B 83, 054402 \(2011\) \[arXiv:1006.5287\]](#)
- D.A. Ivanov and S.E. Korshunov
Continuous interpolation between the fully frustrated Ising and quantum dimer models
[Phys. Rev. B 83, 235129 \(2011\) \[arXiv:1102.1912\]](#)
- S.E. Korshunov
Finite-temperature phase transitions in the quantum fully frustrated transverse-field Ising models
[Phys. Rev. B 86, 014429 \(2012\) \[arXiv:1207.1657\]](#)
- S. Wenzel, T. Coletta, S.E. Korshunov, and F. Mila
Evidence of columnar order in the fully frustrated transverse field Ising model on the square lattice
[Phys. Rev. Lett. 109, 187202 \(2012\) \[arXiv:1207.1618\]](#)

2D STATISTICAL MECHANICS

review article (2006)

- S.E. Korshunov
Phase transitions in two-dimensional systems with continuous degeneracy
[Physics - Uspekhi 49, 225 \(2006\) \[Usp. Fiz. Nauk 176, 233 \(2006\)\]](#)

a) XY models without frustration (1985-1991, 2007)

- S.E. Korshunov
Possible splitting of a phase transition in a 2D XY-model
[Pis'ma ZhETF 41, 216 \(1985\) \[JETP Lett. 41, 263 \(1985\)\]](#)
- S.E. Korshunov
Phase diagram of the modified XY-model
[J. Phys. C 19, 4427 \(1986\)](#)
- A. Vallat, S.E. Korshunov and H. Beck
XY model on a Sierpinski gasket
[Phys. Rev. B 43, 8482 \(1991\)](#)
- S.E. Korshunov
Comment on "Probing vortex unbinding via dipole fluctuations"
[Phys.Rev. B 76, 087401 \(2007\)](#)

b) uniformly frustrated XY models (1986, 1995-2005, 2012)

- S.E. Korshunov
Phase transitions in 2D uniformly frustrated XY-models. II. General scheme
[J. Stat. Phys. 43, 17 \(1986\)](#)
- S.E. Korshunov, A. Vallat and H. Beck
Frustrated XY-models with accidental degeneracy of the ground state
[Phys. Rev. B 51, 3071 \(1995\)](#)
- V. Cataudella, G. Franzese, S.E. Korshunov and R. Fazio
How the next-nearest-neighbor interactions change the phase diagram of a fully frustrated XY

model?

[Physica B 284-288, 431 \(2000\)](#)

- G. Franzese, V. Cataudella, S.E. Korshunov and R. Fazio
Fully frustrated XY model with next-nearest neighbor interaction
[Phys. Rev. B 62, R9287 \(2000\)](#) [arXiv:cond-mat/0004495]
- S.E. Korshunov
Vortex ordering in fully frustrated superconducting systems with a dice lattice
[Phys. Rev. B 63, 134503 \(2001\)](#) [arXiv:cond-mat/0007415]
- S.E. Korshunov
Kink pairs unbinding on domain walls and the sequence of phase transitions in fully frustrated XY models
[Phys. Rev. Lett. 88, 167007 \(2002\)](#) [arXiv:cond-mat/0106151]
- S.E. Korshunov and B. Doucot
Fluctuations and vortex-pattern ordering in the fully frustrated XY model on a honeycomb lattice
[Phys. Rev. Lett. 93, 097003 \(2004\)](#) [arXiv:cond-mat/0310536]
- S.E. Korshunov and B. Doucot
Structure of the superconducting state in a fully frustrated wire network with dice lattice geometry
[Phys. Rev. B 70, 134507 \(2004\)](#) [arXiv:cond-mat/0404388]
- S.E. Korshunov
Fluctuation induced vortex pattern and its disordering in the fully frustrated XY model on a dice lattice
[Phys. Rev. B 71, 174501 \(2005\)](#) [arXiv:cond-mat/0410705]
- S.E. Korshunov
Uniformly frustrated XY model without a vortex-pattern ordering
[Phys. Rev. Lett. 94, 087001 \(2005\)](#) [arXiv:cond-mat/0409575]
- S.E. Korshunov
Ordered phases and phase transitions in the fully frustrated XY model on a honeycomb lattice
[Phys. Rev. B 85, 134526 \(2012\)](#) [arXiv:1112.3723]

c) antiferromagnets with triangular and kagome lattices (1985-1993, 2005-2013)

- S.E. Korshunov
Antiferromagnetic XY-model on a triangular lattice: ordered states in the magnetic field
[Pis'ma ZhETF 41, 525 \(1985\)](#) [[JETP Lett. 41, 641 \(1985\)](#)]
- S.E. Korshunov
Phase diagram of the antiferromagnetic XY-model with a triangular lattice in an external magnetic field
[J. Phys. C. 19, 5927 \(1986\)](#)
- S.E. Korshunov and G.V. Uimin
Phase transitions in 2D uniformly frustrated XY-models. I. Antiferromagnetic model on a triangular lattice
[J. Stat. Phys. 43, 1 \(1986\)](#)
- S.E. Korshunov
Chiral phase of the Heisenberg antiferromagnet with triangular lattice
[Phys. Rev. B 47, 6165 \(1993\)](#)
- S.E. Korshunov
Phase transitions in the antiferromagnetic XY model with a kagome lattice
[Phys. Rev. B 65, 054416 \(2002\)](#) & [77, 149902\(E\) \(2008\)](#) [arXiv:cond-mat/0106463]
- S.E. Korshunov
Nature of phase transition(s) in the striped phase of a triangular-lattice Ising antiferromagnet
[Phys. Rev. B 72, 144417 \(2005\)](#) [arXiv:cond-mat/0506722]
- S.E. Korshunov, F. Mila, and K. Penc
Degeneracy and ordering of the noncoplanar phase of the classical bilinear-biquadratic Heisenberg model on the triangular lattice
[Phys. Rev. B 85, 174420 \(2012\)](#) [arXiv:1202.3214]

- S. Wenzel, S.E. Korshunov, F. Mila, and K. Penc
Zero-temperature Monte Carlo study of the noncoplanar phase of the classical bilinear-biquadratic Heisenberg model on the triangular lattice
[Phys. Rev. B 88, 094404 \(2013\)](#) [arXiv:1305.6418]

LAYERED SUPERCONDUCTORS (1990-1992)

- S.E. Korshunov
Vortex rings and phase transition in layered lattice superconductor
[Europhys. Lett. 11, 757 \(1990\)](#)
- S.E. Korshunov
Fluctuations and melting of the uniaxial vortex crystal in a layered superconductor
[Europhys. Lett. 15, 771 \(1991\)](#)
- S.E. Korshunov and A.I. Larkin
Problem of Josephson-vortex-lattice melting in layered superconductors
[Phys. Rev. B 46, 6395 \(1992\)](#)

QUENCHED DISORDER

a) superconducting arrays and films (1992-1996)

- S.E. Korshunov
Disorder-induced first-order transition in superconducting films
[Phys. Rev. B 46, 6615 \(1992\)](#)
- S.E. Korshunov
Destruction of superconductivity in Josephson junction arrays by positional disorder
[Helv. Phys. Acta 65, 492 \(1992\)](#)
- S.E. Korshunov
Possible destruction of the ordered phase in Josephson junction arrays with positional disorder
[Phys. Rev. B 48, 1124 \(1993\)](#)
- T. Nattermann, S. Scheidl, S.E. Korshunov and M.S. Li
Absence of reentrance in two-dimensional XY-model with random phase shift
[J. Physique I 5, 565 \(1995\)](#) [arXiv:cond-mat/9501120]
- S.E. Korshunov and T. Nattermann
Absence of reentrance in superconducting arrays with positional disorder
[Phys. Rev. B 53, 2746 \(1996\)](#)
- S.E. Korshunov and T. Nattermann
Phase diagram of a Josephson junction array with positional disorder
[Physica B 222, 280 \(1996\)](#)
- A.-L. Eichenberger, J. Affolter, M. Willemin, M. Mombelli, H. Beck, P. Martinoli and S.E. Korshunov
Dynamic measurement of percolative critical exponents in disordered Josephson junction arrays
[Phys. Rev. Lett. 77, 3905 \(1996\)](#)

b) vortex glass (1993-2001)

- S.E. Korshunov
Replica symmetry breaking in vortex glasses
[Phys. Rev. B 48, 3969 \(1993\)](#)
- S.E. Korshunov
Stability analysis of a two-dimensional uniaxial vortex glass
[Phys. Rev. B 53, 14513 \(1996\)](#)
- S.E. Korshunov
Low frequency response of a collectively pinned vortex manifold
[Phys. Rev. B 63, 174514 \(2001\)](#) [arXiv:cond-mat/0007387]

- M. Calame, S.E. Korshunov, Ch. Leemann and P. Martinoli
Collective pinning of a frozen vortex liquid in ultrathin superconducting YBCO films
[Phys. Rev. Lett. 86, 3630 \(2001\)](#) [arXiv:cond-mat/0009308]

c) directed polymer problem (elastic string in a random medium) (1998, 2007-2013)

- S.E. Korshunov and Vik.S. Dotsenko
Fluctuations of a one-dimensional directed polymer in a random potential with finite correlation radius
[J. Phys. A: Math. Gen. 31, 2591 \(1998\)](#) [arXiv:cond-mat/9709258]
- I.V. Kolokolov and S.E. Korshunov
Optimal fluctuation approach to a directed polymer in random medium
[Phys. Rev. B 75, 141201\(R\) \(2007\)](#) [arXiv:0704.1705]
- I.V. Kolokolov and S.E. Korshunov
Universal and non-universal tails of distribution functions in the directed polymer and KPZ problems
[Phys. Rev. B 78, 024206 \(2008\)](#) [arXiv:0805.0402]
- V.S. Dotsenko, L.B.Ioffe, V.B. Geshkenbein, S.E. Korshunov and G. Blatter
Joint free-energy distribution in the random directed polymer problem
[Phys. Rev. Lett. 100, 050601 \(2008\)](#) [arXiv:0705.0220]
- I.V. Kolokolov and S.E. Korshunov
Explicit solution of the optimal fluctuation problem for an elastic string in a random potential
[Phys. Rev. E 80, 031107 \(2009\)](#) [arXiv:0904.1673]
- S.E. Korshunov, V.B. Geshkenbein, and G. Blatter
Finite-temperature perturbation theory for the random directed polymer problem
[Zh. Eksp. Teor. Fiz. 144, 653-661 \(2013\)](#) [[JETP 117, 571-579 \(2013\)](#)]

JOSEPHSON-JUNCTION ARRAYS and CHAINS (1989-2003, 2010)

- S.E. Korshunov
Effect of dissipation on the low-temperature properties of a tunnel-junction chain
[Zh. Eksp. Teor. Fiz. 95, 1058 \(1989\)](#) [[Sov. Phys. JETP 68, 609 \(1989\)](#)]
- S.E. Korshunov
Phase diagram of a chain of dissipative Josephson junctions
[Europhys. Lett. 9, 107 & 839E \(1989\)](#)
- S.E. Korshunov
Anomalous vortex diffusion in proximity junction arrays
[Phys. Rev. B 50, 13616 \(1994\)](#)
- R. Théron, S.E. Korshunov, J.B. Simond, Ch. Leemann, and P. Martinoli
Observation of domain-wall superlattice states in a frustrated triangular array of Josephson junctions
[Phys. Rev. Lett. 72, 562 \(1994\)](#)
- R. Meyer, B. Jeanneret, S.E. Korshunov, and P. Martinoli
Observation of dilational symmetry breaking in a superconducting array of Sierpinski gaskets
[Physica B 194-196, 1725 \(1994\)](#)
- S.E. Korshunov, R. Meyer and P. Martinoli
Magnetoinductance of superconducting Sierpinski gasket
[Phys. Rev. B 51, 5914 \(1995\)](#)
- A.-L. Eichenberger, J. Affolter, M. Willemin, M. Mombelli, H. Beck, P. Martinoli and S.E. Korshunov
Dynamic measurement of percolative critical exponents in disordered Josephson junction arrays
[Phys. Rev. Lett. 77, 3905 \(1996\)](#)
- M.V. Feigel'man, S.E. Korshunov and A.B. Pugachev
Parity effect and charge binding transition in submicron Josephson junction arrays
[Pis'ma v ZhETF 65, 541 \(1997\)](#) [[JETP Lett. 65, 566 \(1997\)](#)]; cond-mat/9703174]
- R. Meyer, S.E. Korshunov, Ch. Leemann and P. Martinoli
Dimensional crossover and hidden incommensurability in Josephson junction arrays of periodically

repeated Sierpinski gaskets

[Phys. Rev. B 66, 104503 \(2002\)](#) [arXiv:cond-mat/0205105]

- S.E. Korshunov
Fluctuation-dissipation theorem and flux noise in overdamped Josephson-junction arrays
[Phys. Rev. B 66, 104513 \(2002\)](#) [arXiv:cond-mat/0203531]
- S.E. Korshunov
Magnetoinductance of Josephson junction arrays with frozen vortex diffusion
[Phys. Rev. B 68, 094512 \(2003\)](#) [arXiv:cond-mat/0303581]
- S.E. Korshunov
Sequence of phase transitions induced in an array of Josephson junctions by their crossover to pi-state
[EPL 89, 17004 \(2010\)](#) [arXiv:0909.5114]

MISCELLANEOUS (1982, 1988)

- S.E. Korshunov
On stability of shock waves with finite relaxation zone
Izv. Akad. Nauk - Mekh. Zhidk. i Gaza No.5, p.176-179 (1982) [[Fluid Dyn. {bf 17}, 802-806 \(1982\)](#)]
- S.E. Korshunov and G.V. Uimin
Exact solutions in the two-dimensional wetting problem
Zh. Eksp. Teor. Fiz. 94, No. 6, 270 (1988) [[Sov. Phys. JETP 67, 1242 \(1988\)](#)]
- S.E. Korshunov
Multipartite exchange processes and the phase transition of an electron crystal in a magnetic field
Zh. Eksp. Teor. Fiz. 94, No. 11, 328 (1988) [[Sov. Phys. JETP 67, 2360 \(1988\)](#)]

Полный список публикаций (в хронологическом порядке):

1. B. Gränz, S.E. Korshunov, V.B. Geshkenbein, G. Blatter, Competing structures in two dimensions: Square-to-hexagonal transition, [Phys. Rev. B 94, 054110 \(2016\)](#), WoS: [000381475300001](#), Scopus: [2-s2.0-84985937186](#).
2. A. Smerald, S. Korshunov, F. Mila, Topological Aspects of Symmetry Breaking in Triangular-Lattice Ising Antiferromagnets, [Phys. Rev. Lett. 116, 197201 \(2016\)](#); arXiv:[1602.01747](#), WoS: [000376011400006](#), Scopus: [2-s2.0-84969244139](#).
3. S.E. Korshunov, Physical realization of the generalized fully frustrated XY model in an array of SFS junctions, [Phys. Rev. B 92, 064506 \(2015\)](#); arXiv:[1507.06485](#), WoS: [000359343800006](#), Scopus: [2-s2.0-84939838918](#).
4. B. Gränz, S.E. Korshunov, V.B. Geshkenbein, G. Blatter, Competing structures in two-dimensional trapped dipolar gases, [Phys. Rev. B 90, 060101\(R\) \(2014\)](#); arXiv:[1502.03214](#), WoS: [000339994200001](#), Scopus: [2-s2.0-84940289957](#).
5. T. Coletta, S.E. Korshunov, F. Mila, Semiclassical evidence of columnar order in the fully frustrated transverse-field Ising model on the square lattice, [Phys. Rev. B 90, 205109 \(2014\)](#); arXiv:[1408.3515](#), WoS: [000345171300005](#), Scopus: [2-s2.0-84911092204](#).

6. S. Wenzel, S.E. Korshunov, K. Penc, F. Mila, Zero-temperature Monte Carlo study of the non-coplanar phase of the classical bilinear-biquadratic Heisenberg model on the triangular lattice, [Phys. Rev. B 88, 094404 \(2013\) \[14 pages\]](#); arXiv:[1305.6418](#), WoS: [000323942400002](#), Scopus: [2-s2.0-84884886266](#).
7. S.E. Korshunov, V.B. Geshkenbein, G. Blatter, Finite-temperature perturbation theory for the random directed polymer problem, [ЖЭТФ, 144\(3\), 653-661 \(2013\) \[JETP 117\(3\), 570-578 \(2013\)\]](#), WoS: [000325709500015](#), Scopus: [2-s2.0-84886415987](#).
8. А.Ф. Андреев, И.Р. Габитов, В.Е. Захаров, С.В. Иорданский, Е.И. Кац, И.В. Колоколов, С.Е. Коршунов, М.Р. Трунин, Г.Е. Фалькович, М.В. Фейгельман, Д.Е. Хмельницкий, Г.М. Элиашберг, Владимир Валентинович Лебедев (к 60-летию со дня рождения), [Успехи физ. наук, 183 \(6\), 669-670 \(2013\) \[A.F. Andreev, I.R. Gabitov, V.E. Zakharov, S.V. Iordanskii, E.I. Kats, I.V. Kolokolov, S.E. Korshunov, M.R. Trunin, G.E. Falkovich, M.V. Feigel'man, D.E. Khmel'nitskii, G.M. Eliashberg, Vladimir Valentinovich Lebedev \(on his 60th birthday\), Phys. Usp. 56\(6\), 637-638 \(2013\)\]](#), WoS: [000324296600010](#).
9. S.E. Korshunov, Ordered phases and phase transitions in the fully frustrated XY model on a honeycomb lattice, [Phys. Rev. B 85, 134526 \(2012\) \[17 pages\]](#); arXiv:[1112.3723](#), WoS: [000303235000001](#), Scopus: [2-s2.0-84860430103](#).
10. S.E. Korshunov, F. Mila, K. Penc, Degeneracy and ordering of the noncoplanar phase of the classical bilinear-biquadratic Heisenberg model on the triangular lattice, [Phys. Rev. B 85, 174420 \(2012\) \[9 pages\]](#); arXiv:[1202.3214](#), WoS: [000304081100007](#), Scopus: [2-s2.0-84861674457](#).
11. S.E. Korshunov, Finite-temperature phase transitions in the quantum fully frustrated transverse-field Ising models, [Phys. Rev. B 86, 014429 \(2012\) \[4 pages\]](#); arXiv:[1207.1657](#), WoS: [2-s2.0-84864449621](#).
12. S. Wenzel, T. Coletta, S.E. Korshunov, F. Mila, Evidence for Columnar Order in the Fully Frustrated Transverse Field Ising Model on the Square Lattice, [Phys. Rev. Lett. 109, 187202 \(2012\) \[5 pages\]](#); arXiv:[1207.1618](#), WoS: [000310612000036](#), Scopus: [2-s2.0-84868330604](#).
13. T. Coletta, J. -D. Picon, S.E. Korshunov, F. Mila, Phase diagram of the fully frustrated transverse-field Ising model on the honeycomb lattice, [Phys. Rev. B 83, 054402 \(2011\) \[14 pages\]](#); arXiv:[1006.5287](#), WoS: [000286981400002](#), Scopus: [2-s2.0-79953214421](#).
14. D.A. Ivanov, S.E. Korshunov, Continuous interpolation between the fully frustrated Ising and quantum dimer models, [Phys. Rev. B 83, 235129 \(2011\) \[9 pages\]](#); arXiv:[1102.1912](#), WoS: [000291697600001](#), Scopus: [2-s2.0-79961203081](#).
15. S.E. Korshunov, Sequence of phase transitions induced in an array of Josephson junctions by their crossover to π -state, [Europhys. Lett., 89, 17004 \(2010\) \(5pp\)](#); arXiv:[0909.5114](#), Scopus: [2-s2.0-78650882199](#).
16. I.V. Kolokolov, S.E. Korshunov, Explicit solution of the optimal fluctuation problem for an elastic string in a random medium, [Phys. Rev. E 80, 031107 \(2009\) \[9 pages\]](#); arXiv:[0904.1673](#).

17. S.E. Korshunov, Two-level systems and mass deficit in quantum solids, [Письма в ЖЭТФ, 90 \(2\), 167-170 \(2009\)](#) [[JETP Lett. 90\(2\), 156-159 \(2009\)](#)]; arXiv:[0906.4627](#).
18. I.V. Kolokolov, S.E. Korshunov, Universal and nonuniversal tails of distribution functions in the directed polymer and Kardar-Parisi-Zhang problems, [Phys. Rev. B 78, 024206 \(2008\)](#); arXiv:[0805.0402](#).
19. V.S. Dotsenko, L.B. Ioffe, V.B. Geshkenbein, S.E. Korshunov, G. Blatter, Joint Free-Energy Distribution in the Random Directed Polymer Problem, [Phys. Rev. Lett., 100, 050601 \(2008\)](#); arXiv:[0705.0220](#).
20. I.V. Kolokolov, S.E. Korshunov, Optimal fluctuation approach to a directed polymer in a random medium, [Phys. Rev. B 75, 140201\(R\) \(2007\) \(4 pages\)](#); arXiv:[0704.1705](#).
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