

LIST OF PUBLICATIONS by PETER THALMEIER

2011-2015

1. *Quasiparticle scattering image in hidden order phases and chiral superconductors*
Peter Thalmeier and Alireza Akbari
Journal of Magnetism and Magnetic Materials **400** (2016) 23
2. *The J1-J2 model on the anisotropic triangular and the square lattice: similarities and differences*
Burkhard Schmidt and Peter Thalmeier
Acta Physica Polonica A **127** (2015) 324
3. *Quantitative study of valence and configuration interaction parameters of the Kondo semiconductors CeM_2Al_{10} ($M = Ru, Os$ and Fe) by means of bulk-sensitive hard X-ray photoelectron spectroscopy*
F. Strigari, M. Sundermann, Y. Muro, K. Yutani, T. Takabatake, K.-D. Tsuei, Y. F. Liao, A. Tanaka, Peter Thalmeier, M. V. Haverkort, Liu Hao Tjeng and A. Severing
Journal of Electron Spectroscopy and Related Phenomena **199** (2015) 56
4. *Thermodynamics of anisotropic triangular magnets with ferro- and antiferromagnetic exchange*
Burkhard Schmidt and Peter Thalmeier
New J. Phys. **17** (2015) 073025
5. *REVIEW ARTICLE: Resonant spin excitations in unconventional heavy fermion superconductors and Kondo lattice compounds*
Peter Thalmeier and Alireza Akbari
"Proceedings of the 50th Karpacz Winter School: Quantum Criticality in Condensed Matter", World Scientific, Singapore (ISBN 978-981-4704-08-3) (2015) 44
6. *Collective spin resonance excitation in the gapped itinerant multipole hidden order phase of URu_2Si_2*
Alireza Akbari and Peter Thalmeier
Phys. Rev. B **92** (2015) 094512
7. *Hidden-order symmetry and superconductivity in URu_2Si_2 investigated by quasiparticle interference*
Alireza Akbari and Peter Thalmeier
Phys. Rev. B **90** (2014) 224511
8. *Intrinsic conduction through topological surface states of insulating Bi_2Te_3 epitaxial thin films*
Katharina Hofer, Christoph Becker, Diana Rata, Jesse Swanson, Peter Thalmeier and Liu Hao Tjeng
Proc. Natl. Acad. Sci. **111** (2014) 14979
9. *Itinerant multipolar order in URu_2Si_2 and its signature in magnetic and lattice properties*
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10. *Gap function of hexagonal pnictide superconductor $SrPtAs$ from quasiparticle interference spectrum*
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Europhysics Letters **106** (2014) 27006
11. *Quantum fluctuations in anisotropic triangular lattices with ferromagnetic and antiferromagnetic exchange*
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12. *Quasiparticle interference in unconventional singlet and mixed singlet-triplet heavy fermion superconductors*
Peter Thalmeier and Alireza Akbari
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13. *Stabilization of Neel order in frustrated magnets with increasing magnetic field*
Burkhard Schmidt, Mohammad Siahatgar and Peter Thalmeier
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14. *Spin excitons in the unconventional superconducting and hidden order state of strongly correlated electrons*
Peter Thalmeier and Alireza Akbari
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15. *Evolution of the multiband Ruderman-Kittel-Kasuya Yosida interaction: application to iron pnictides and chalcogenides*
Alireza Akbari, Peter Thalmeier and Ilya Eremin
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16. *Spin Excitons from hybridized heavy quasiparticles in YbB_{12} and CeB_6*
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17. *Magnetic moment screening in the correlated Kondo lattice model*
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18. *Field-induced staggered moment stabilization in frustrated quantum magnets*
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19. *Role of hyperfine coupling in magnetic and quadrupolar ordering of $\text{Pr}_3\text{Pd}_{20}\text{Si}_6$*
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21. *Multiorbital and hybridization effects in the quasiparticle interference of the triplet superconductor Sr_2RuO_4*
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23. *Full t -matrix approach to quasiparticle interference in non-centrosymmetric superconductors*
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24. *Spin exciton formation inside the hidden order phase of CeB_6*
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25. *Quantum effects in uniform and staggered moment of frustrated quasi-2D antiferromagnets*
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27. *Moment screening in the correlated Kondo lattice model*
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28. *Field-induced spin exciton doublet splitting in $d_{x^2-y^2}$ -wave CeMIn_5 ($M=\text{Rh}, \text{Ir}, \text{Co}$) heavy electron superconductors*
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29. *Inelastic magnetic scattering effect on local density of states of topological insulators*
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 30. *Effect of f electron excitations in heavy fermion and unconventional superconductors*
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 31. *Magnetic rare-earth impurity resonance bound states in iron-based superconductors*
Alireza Akbari, Peter Thalmeier and Ilya Eremin
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 32. *Ordered moment in the anisotropic and frustrated square lattice Heisenberg model*
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 33. *Surface phonon propagation in topological insulators*
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 34. *Signatures of hidden-order symmetry in torque oscillations, elastic constant anomalies, and field-induced moments in URu₂Si₂*
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 39. *Quasiparticle interference in the heavy-fermion superconductor CeCoIn₅*
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 40. *Topological insulator ribbon: Surface states and dynamical response*
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 41. *RKKY interaction in the spin-density-wave phase of iron-based superconductors*
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42. *Surface acoustic wave propagation in graphene*
Peter Thalmeier, Balazs Dora and Klaus Ziegler
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43. *Magnetic impurity resonance states and symmetry of the superconducting order parameter in iron-based superconductors*
Alireza Akbari, Ilya Eremin and Peter Thalmeier
Physical Review B **81** (2010) 014524
44. *Antiferromagnetism with ferro-orbital order in Fe pnictides*
Katsunori Kubo and Peter Thalmeier
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45. *The two-dimensional frustrated Heisenberg model on the orthorhombic lattice*
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47. *Triplet Cooper pairing by spin fluctuations peculiar to non-centrosymmetric system*
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48. *Nonadiabatic effects of rattling phonons and 4f excitations in $Pr(Os_{1-x}Ru_x)_4Sb_{12}$*
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49. *Acoustic Faraday effect in $Tb_3Ga_5O_{12}$*
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50. *Low-temperature electrical resistivity in paramagnetic spinel LiV_2O_4*
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51. *Feedback spin exciton formation in unconventional superconductors*
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52. *Feedback effect on spin excitations in Ce-based unconventional superconductors*
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55. *Theory of spin exciton in the Kondo semiconductor YbB_{12}*
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60. *Field-dependent mass enhancement in $Pr_{1-x}La_xOs_4Sb_{12}$ from aspherical Coulomb scattering*
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62. *Characteristic feature of dynamical susceptibility in noncentrosymmetric system*
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64. *Density of states in disordered graphene*
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69. *Low-energy spin fluctuations in the metallic spinel compound LiV_2O_4*
Victor Yushankhai, Peter Thalmeier and Tetsuya Takimoto
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70. *Theory of induced quadrupolar order in tetragonal $YbRu_2Ge_2$*
Tetsuya Takimoto and Peter Thalmeier
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71. *Effect of weak disorder on the density of states in graphene*
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72. *Self-consistent renormalization theory of spin fluctuations in paramagnetic spinel LiV_2O_4*
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