

# List of Publications

Andres Cano

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## Books

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- *Mathematical Methods of Physics. The Fourier Method* (in spanish)  
A.P. Levanyuk and A. Cano (with participation of R. Fernandez-Ruiz)  
Ediciones UAM, Madrid, 2006

## Articles

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- *Effect of uniaxial pressure on the magneto-structural transitions of iron arsenide superconductors*  
A. Cano and I. Paul; arXiv:1201.5594
- *Anisotropic conductance at improper ferroelectric domain walls*  
D. Meier, J. Seidel, A. Cano, K. Delaney, Y. Kumagai, M. Mostovoy, N.A. Spaldin, R. Ramesh, and M. Fiebig  
Nature Mater. **11**, 284 (2012); arXiv:1112.5194
- *Aharonov-Bohm interferences from local deformations in graphene*  
F. de Juan, A. Cortijo, M.A.H. Vozmediano and A. Cano  
Nature Phys. **7**, 810 (2011); arXiv:1105.0599
- *Impact of spin-nematic order on the lattice domains in thin films of iron-based superconductors*  
A. Cano  
Phys. Rev. B **84**, 012504 (2011); arXiv:1103.3302
- *Magnetoelastic effects in iron telluride*  
I. Paul, A. Cano and K. Sengupta  
Phys. Rev. B **83**, 115109 (2011); arXiv:1011.1932v1
- *Multi-domain ferroelectricity as a limiting factor for voltage amplification in ferroelectric field-effect transistors*  
A. Cano and D. Jimenez  
Appl. Phys. Lett. **97**, 133509 (2010); arXiv:1103.3768
- *Interplay of magnetic and structural transitions in iron-based pnictide superconductors*  
A. Cano, M. Civelli, I. Eremin and I. Paul  
Phys. Rev. B **82**, 020408(R) (2010); arXiv:1004.4145
- *Pseudo-proper ferroelectricity in thin films*  
A. Cano and A.P. Levanyuk  
Phys. Rev. B **81**, 172105 (2010); arXiv:0907.2236
- *Theory of electromagnon resonances in the optical response of spiral magnets*  
A. Cano  
Phys. Rev. B **80**, 180416(R) (2009); arXiv:0902.0495
- *Aharonov-Bohm oscillations in the local density of states*  
A. Cano and I. Paul  
Phys. Rev. B **80**, 153401 (2009); arXiv:0909.0019

- *Koshino-Taylor effect in graphene*  
A. Cano  
Phys. Rev. B **79**, 153410 (2009); arXiv:0809.1996
- *Electromagnon excitations in modulated multiferroics*  
A. Cano and E.I. Kats  
Phys. Rev. B **78**, 012104 (2008); arXiv:0712.2138
- *Quasi-normal mode analysis in BEC acoustic black holes*  
C. Barceló, A. Cano, L.J. Garay and G. Jannes  
Phys. Rev. D **75**, 084024 (2007); gr-qc/0701173
- *Adatom-adatom interaction mediated by an underlying surface phase transition*  
I. Brihuega, A. Cano, M.M. Ugeda, J.J. Sáenz, A.P. Levanyuk, and J.M. Gómez-Rodríguez  
Phys. Rev. Lett. **98**, 156102 (2007)
- *Stability analysis of sonic horizons in Bose-Einstein condensates*  
C. Barceló, A. Cano, L.J. Garay and G. Jannes  
Phys. Rev. D **74**, 024008 (2006); gr-qc/0603089
- *On low-temperature structural phase transitions*  
A. Cano and A.P. Levanyuk  
J. Supercond. **19**, 417 (2006), (special issue in honor of V.L. Ginzburg); cond-mat/0603372
- *Reply to Comment on “Explanation of the glass-like anomaly in the low-temperature specific heat of incommensurate phases”*  
A. Cano and A.P. Levanyuk  
Phys. Rev. Lett. **96**, 039604 (2006)
- *Strong effect of surfaces on resolution limit of negative-index “superlens”*  
A.M. Bratkovsky, A. Cano and A.P. Levanyuk  
Appl. Phys. Lett. **87**, 103507 (2005); cond-mat/0412684
- *Structural phase transitions in two-dimensional systems: Pb/Ge(111) and Sn/Ge(111)*  
A. Cano, A.P. Levanyuk and E.G. Michel  
Z. Kristallogr. **220**, 663 (2005)
- *Influence of striction on soliton interaction in crystals*  
S.A. Minyukov, A.P. Levanyuk and A. Cano  
Crystallogr. Rep. **50**, 262 (2005)
- *$(\sqrt{3}\times\sqrt{3})R30^\circ \leftrightarrow (3\times 3)$  phase transition in Pb/Ge(111) and Sn/Ge(111): A phenomenological study on the phase transition anomalies and the role of defects*  
A. Cano, A.P. Levanyuk and E.G. Michel  
Nanotechnology **16**, 325 (2005)
- *Explanation of the glass-like anomaly in the low-temperature specific heat of incommensurate phases*  
A. Cano and A.P. Levanyuk  
Phys. Rev. Lett. **93**, 245902 (2004); cond-mat/0404437
- *Low-temperature specific heat of real crystals: Possibility of leading contribution of optical and short-wavelength acoustical vibrations*  
A. Cano and A.P. Levanyuk  
Phys. Rev. B **70**, 212301 (2004); cond-mat/0404063

- *Low-temperature structural phase transitions: Phonon-like and relaxation order-parameter dynamics*  
A. Cano and A.P. Levanyuk  
Phys. Rev. B **70**, 064104 (2004); cond-mat/0404140
- *Elasticity-driven interaction between vortices in high- $\kappa$  superconductors: leading role of a non-core contribution*  
A. Cano, A.P. Levanyuk and S.A. Minyukov  
Physica C **404**, 226 (2004)
- *Elasticity-driven interaction between vortices in type-II superconductors*  
A. Cano, A.P. Levanyuk and S.A. Minyukov  
Phys. Rev. B **68**, 44515 (2003); cond-mat/0303342
- *Zero- $T$  transitions in order-disorder systems: Displacive-like behavior*  
A. Cano and A.P. Levanyuk  
Ferroelectrics **283**, 3 (2003)
- *Universal mechanism of discontinuity of commensurate-incommensurate transitions in three-dimensional solids: Strain dependence of soliton self-energy*  
A.P. Levanyuk, S.A. Minyukov and A. Cano  
Phys. Rev. B **66**, 014111 (2002); cond-mat/0110469
- *Striction-mediated attraction between domain walls: Main cause of the discontinuity of commensurate-incommensurate transitions*  
A.P. Levanyuk, S.A. Minyukov and A. Cano  
Ferroelectrics **270**, 321 (2002)
- *Defects as a cause of continuity of normal-incommensurate phase transitions*  
A. Cano and A.P. Levanyuk  
Phys. Rev. B **62**, 12014 (2000); cond-mat/9912130