

Publication List
Marcia C. Barbosa

Physics

Atomistic model derived from ab initio calculations tested in Benzene-Benzene interaction potential
Elizane E. de Moraes, Mariana Z. Tonel, Solange B. Fagan and Marcia C. Barbosa
Physica A 537 122679 (2020).

Density functional theory study of aromatic interaction of benzene, phenol, catechol, dopamine
isolated dimers and adsorbed on graphene surface
Elizane E. de Moraes, Mariana Z. Tonel, Solange B. Fagan and Marcia C. Barbosa
Journal of Molecular Modeling 25 302 (2019).

Dynamical aspects of supercooled TIP3P water in the grooves of DNA
M. A. F. dos Santos, M. A. Habitzreuter, M. H. Schwade, R. Borrasca, M. Antonacci, G. K.
Gonzatti, P. A. Netz, and Marcia C. Barbosa
Journal of Chemical Physics 150 235101 (2019).

Dewetting in Associating Lattice Gas Model Confined by Hydrophobic Walls
Tássylla O. Fonseca , Marcia M. Szortyka, Patricia Ternes, Cristina Gavazzoni, Alan B. de Oliveira,
and Marcia C. Barbosa
SCIENCE CHINA : Physics, Mechanics and Astronomy 69 107009 (2019).

Water in nanotubes: The surface effect
Mateus H. Köhler , José R. Bordin, Carolina F. de Matos, Marcia C. Barbosa
Chemical Engineering Science 203 54 (2019).

Ion flocculation in water: From bulk to nanoporous membrane desalination
Mateus H. Kohler, J. R. Bordin and M. C. Barbosa
Molecular Liquids 277 516 (2019).

Diffusion behaviour of water confined in deformed carbon nanotubes
Bruno Mendonça, Debora Freitas, Mateus Kohler, Marcia C. Barbosa and Alan B. de Oliveira
Physica A 517 491 (2019).

Polarização
Marcia C. Barbosa
Zero Hora Outubro (2018).

A água nossa de cada dia
Marcia C. Barbosa
Blog de Estado da Arte do Estadão 26 Julho (2018).

Relation between boundary slip mechanisms and water-like fluid behavior
Patricia Ternes, Marcia C. Barbosa and Evy Salcedo
Physical Review E 97 033104 (2018).

Waterlike anomalies in a 2D core-softened potential

José Rafael Bordin, and Marcia C. Barbosa

Physical Review E 97 022604 (2018).

2D nanoporous membrane for cation removal from water: effects of ionic valence, membrane hydrophobicity and pore size

Mateus Henrique Kohler, José Rafael Bordin, and Marcia C. Barbosa

Journal of Chemical Physics 148 222804 (2018).

Core-softened potentials, multiple liquid-liquid critical points, and density anomaly regions: An exact solution

Eduardo O. Rizzatti, Marco Aurélio A. Barbosa and Marcia C. Barbosa

Frontiers of Physics 13 136102 (2018).

Potassium bromide, KBr/epsilon: New Force Field

Raul Fuentes-Azcatl and Marcia C. Barbosa

Physica A 491 480 (2018).

Structure and dynamics of water inside hydrophobic and hydrophilic nanotubes

Mateus Henrique Kohler, José Rafael Bordin, Leandro B. Krott, and Marcia C. Barbosa

Physica A 490 331 (2018).

Freezing Suppression in Confined Water

Tássylla O. Fonseca, Patricia Ternes, Alan B. de Oliveira, Marcia C. Barbosa

Physicae Organum 3 (2) 128 (2017).

Structure and Mobility of Water Confined in AlPO₄-54 Nanotubes

Cristina Gavazzoni, Nicolas Giovambattista, Paulo A. Netz and Marcia C. Barbosa

Journal of Chemical Physics 146 234509 (2017).

A coarse-grained model based on core-softened potentials for anomalous polymers

Ronaldo J. C. Batista, Evy A. Salcedo Torres, Alan Barros de Oliveira, Marcia C. Barbosa

Journal of Chemical Sciences 129 999 (2017).

Breakdown of the Stokes-Einstein water transport through narrow hydrophobic nanotubes

Mateus Henrique Kohler, José Rafael Bordin, Leandro B. da Silva and Marcia C. Barbosa

Physical Chemistry Chemical Physics 19 12921 (2017).

Temperature of maximum density and excess properties of short-chain alcohol aqueous solutions: A simplified model simulation study

Alexandre P. Furlan, E. Lomba and Marcia C. Barbosa

J. Chem. Phys. 146 144503 (2017).

Role of the hydrophobic and hydrophilic sites in the dynamic crossover of the protein-hydration water

Mateus Henrique Kohler, Rafael C. Barbosa, Leandro B. da Silva, Marcia C. Barbosa

Physica A 468 733 (2017).

Critical points, phase transitions and water-like anomalies for an isotropic two length scale potential with increasing attractive well

Leonardo Pinheiro, Alexandre Furlan, Leandro B. Krott, Alexandre Diehl and Marcia C. Barbosa

Physica A 468 866 (2017).

Flow and structure of fluids in functionalized nanopores

J. R. Bordin and Marcia C. Barbosa

Physica A 467 137 (2017).

Lattice Model for water-solute mixtures

Alexandre P. Furlan, Noé Almarza and Marcia C. Barbosa

J. Chem. Phys. 145 144501 (2016).

Sodium Chloride, NaCl/epsilon : New Force Field

Raul Fuentes-Azcatl and Marcia C. Barbosa

J. Phys. Chem. B 120 2460 (2016).

Structural behavior of an anomalous under hydrophobic, hydrophilic and heterogeneous confinement

Rafael de C. Barbosa Leandro B. Krott and Marcia C. Barbosa

Journal of Physics : Conference Series 686 012004 (2016).

Order-Disorder structural transition in a confined fluid

E. M. de la Calleja-Mora, Leandro B. Krott and Marcia C. Barbosa

Physica A 449 18 (2016).

Thermodynamic and dynamic anomalous behavior in the TIP4P/epsilon water model

Raul Fuentes-Azcatl and Marcia C. Barbosa

Physica A 444 86 (2016).

Influence of disordered porous media on the anomalous properties of a simple water model

Alexandre P. Furlan, Carlos E. Fiore and Marcia C. Barbosa

Phy. Rev. E 92 32404 (2015).

Hydration shell of the TS-Kappa protein: higher density than bulk water

Rafael de C. Barbosa and Marcia C. Barbosa

Physica A 439 48 (2015).

Self-Assembly and Waterlike anomalies in Janus Nanoparticles

J. R. Bordin, L. B. Krott and Marcia C. Barbosa

Langmuir 31 8577 (2015).

Aprendendo com as esquisitices da água

Marcia C. Barbosa

Boletim da Física 6 Maio (2015).

Tapping the incredible weirdness of water

M. C. Barbosa

New Scientist 3016 4 April 26 (2015).

Effects of confinement on anomalies and phase transitions of core-softened fluids

Leandro Krott, J. R. Bordin, Ney Marçal and M. C. Barbosa

J. Chem. Phys. 142 134502 (2015).

The Associating Lattice Gas in the Presence of Interacting Solutes

Mauricio Girardi, Marcia M. Szortyka, Vera B. Henriques and Marcia C. Barbosa

J. Chem. Phys. 142 094502 (2015).

New Structural Anomaly Induced by Nanoconfinement

L. B. Krott, J. R. Bordin and M. C. Barbosa

J. Phys. Chem. B 119 291 (2015).

High pressure induced phase transition and superdiffusion in anomalous fluid confined in flexible nanopores

J. R. Bordin and L. B. Krott and M. C. Barbosa

J. Chem. Phys. 141 144502 (2014).

DNA denaturation in the rodlike polyelectrolyte model

C. B. Passos and Marcia C. Barbosa

Physica A 413 481 (2014).

Enhanced flow of core-softened fluids through nanotubes

J. R. Bordin, J. S. Andrade Jr., A. Diehl and M. C. Barbosa

J. Chem. Phys. 140 194504 (2014).

Surface Phase Transition in Anomalous Fluid in Nanoconfinement

J. R. Bordin, L. B. Krott and M. C. Barbosa

J. Phys. Chem. C 118 9497 (2014).

The role of the anisotropy on the solid-fluid phase transition in core-softened shoulder-dumbbells systems

Cristina Gavazzoni, Guilherme K. Gonzatti, Luiz Felipe Pereira, Luis Henrique Coelho Ramos, Paulo A. Netz, and Marcia C. Barbosa

J. Chem. Phys. 140 154502 (2014).

Phase Diagram and Thermodynamic and Dynamic Anomalies in a Pure Repulsive Model

Andressa A. Bertolazzo and Marcia C. Barbosa

Physica A 404 150 (2014).

Model of waterlike fluid under confinement for hydrophobic and hydrophilic particle-plate interaction potentials

Leandro B. Krott and Marcia C. Barbosa

Physical Review E 89 012110 (2014).

Density and Diffusion Anomalies in a repulsive lattice gas

Andressa Bertolazzo and Marcia C. Barbosa

Physics Procedia 53 7 (2014).

Relation Between Flow Enhancement Factor and Structure for Core-Softened Fluids Inside Nanotubes

Rafael Bordin, Alexandre Diehl and Marcia C. Barbosa

J. Phys. Chem. B 117 7047 (2013).

Relation between occupation in the first coordination shells and Widom line in Core-Softened Potential

Evy Salcedo, Ney M. Barraz Jr. and Marcia C. Barbosa

J. Chem. Phys. 138 164502 (2013).

Multiple liquid-liquid critical points and density anomaly in core-softened potentials

Marco A. Barbosa, Evy Salcedo and Marcia C. Barbosa
Phys. Rev. E 87 032303 (2013).

Anomalies in a waterlike model confined between plates
Leandro Krott and Marcia C. Barbosa
J. of Chem. Phys. 138 084505 (2013).

Hydration and anomalous solubility of the Bell-Lavis model as solvent
Marcia M. Szortyka, C. E. Fiore, Marcia C. Barbosa and Vera B. Henriques
Phys. Rev. E 86 031503 (2012).

Diffusion Enhancement in Core-softened fluid confined in nanotubes
J. R. Bordin, Alan B. de Oliveira, Alexandre Diehl and Marcia C. Barbosa
J. Chem. Phys. 137 084504 (2012).

Structure and anomalous solubility for hard spheres in an associating lattice gas model
Marcia M. Szortyka, Mauricio Girardi, Vera B. Henriques and Marcia C. Barbosa
J. Chem. Phys. 137 064905 (2012).

Ion fluxes through nanopores and transmembrane channels
J. R. Bordin, A Diehl, M. C. Barbosa and Y. Levin
Phys. Rev. E 85 031914 (2012).

Thermodynamic, Dynamic, Structural and Excess Entropy Anomalies for core-softened potentials
Ney M. Barraz Jr., Evy Salcedo and Marcia C. Barbosa,
J. Chem. Phys. 135 104507 (2011) .

Core-softened Fluids, Water-like Anomalies and the Liquid-Liquid Critical Points
Evy Salcedo, Alan Barros de Oliveira, Ney M. Barraz Jr., Charusita Chakravarty and Marcia C. Barbosa,
J. Chem. Phys. 135 044517 (2011) .

Effects of the attractive interactions in the thermodynamic, dynamic and structural anomalies of a two length scale potential
Jonathas da Silva, Evy Salcedo, Alan Barros de Oliveira and Marcia C. Barbosa
J. Chem. Phys. 133 244506 (2010) .

Diffusion anomaly and dynamic transitions in the Bell-Lavis water model
Marcia M. Szortyka, Carlos E. Fiore, Vera B. Henriques and Marcia C. Barbosa
J. Chem. Phys. 133 104904 (2010) .

Entropy, diffusivity and the energy landscape of a water-like fluid
Alan Barros de Oliveira, Evy Salcedo, Charusita Chakravarty and Marcia C. Barbosa
J. Chem. Phys. 132 234509 (2010) .

Liquid crystal phase and water-like anomalies in a core-softened shoulder-dumbbells system
Alan Barros de Oliveira, Eduardo B. Neves, Cristina Gavazzoni, Juliana Z. Paukowski, Paulo A. Netz, Marcia C. Barbosa
J. Chem. Phys. 132 164505 (2010) .

An iterative, fast, linear-scaling method for computing induced charges on arbitrary dielectric boundaries

Sandeep Tyagi, Mehmet Süzen, Marcello Sega, Marcia Barbosa, Sofia S. Kantorovich, and Christian Holm
J. Chem. Phys. 132 154112 (2010) .

Dynamic Transitions in a Three Dimensional Associating Lattice Gas Model
Marcia Szortyka, Mauricio Girardi, Vera B. Henriques and Marcia C. Barbosa
J. Chem. Phys. 132 134904 (2010) .

Liquid Polimorphism, order-disorder transitions and anomalous behavior: a Monte Carlo study of the Bell-Lavis model for water
Marcia Szortyka, Carlos Eduardo Fiore, Marcia C. Barbosa and Vera B. Henriques
J. Chem. Phys. 131 164506 (2009).

Thermodynamic, Dynamic and Structural Anomalies for Shoulder-like potentials
Ney M. Barraz Jr., Evy Salcedo and Marcia C. Barbosa
J. Chem. Phys. 131 094504 (2009) .

Dynamic Transitions in a Two Dimensional Associating Lattice Gas Model
Marcia Szortyka, Mauricio Girardi, Vera Henriques and Marcia C. Barbosa
J. Chem. Phys. 130 184902 (2009) .

An ubiquitous mechanism for water-like anomalies
Alan Barros de Oliveira, Paulo A. Netz and Marcia C. Barbosa
Europhysics Letters 85 36001 (2009) .

Which mechanism underlies the water-like anomalies in core-softened potentials?
Alan Barros de Oliveira, Paulo A. Netz and Marcia C. Barbosa
European Phys. Journal B 64 481 (2008) .

Water-like hierarchy of anomalies in a continuous spherical shouldered potential
Alan Barros de Oliveira, Giancarlo Franzese, Paulo A. Netz and Marcia C. Barbosa
J. Chem. Phys. 128 064901 (2008) .

Amphiphile Adsorption on Rigid Polyelectrolytes
Paulo Kuhn, Yan Levin, Marcia C. Barbosa and Ana Paula Ravazzolo
Macromolecules 40 7372 (2007).

Diffusion Anomaly in a three dimensional lattice gas
Mauricio Girardi, Marcia Szortyka and Marcia C. Barbosa
Physica A 386 692 (2007).

Interplay between structure and density anomaly for an isotropic core-softened ramp-like potential
Alan Barros de Oliveira, Marcia C. Barbosa and Paulo E. Netz
Physica A 386 744 (2007).

Diffusion Anomaly in an Associating Lattice Gas Model
Marcia Szortyka and Marcia C. Barbosa
Physica A 380 27 (2007).

Liquid polymorphism, density anomaly and H-bond disruption in an associating lattice gases
A. L. Balladares, Mauricio Girardi, V. Henriques and Marcia C. Barbosa
J. Phys.: Condensed Matter 19 116105 (2007).

Liquid polymorphism and density anomaly in a three-dimensional associating lattice gas
M. Girardi, A. L. Balladares, V. Henriques and Marcia C. Barbosa
J. Chem. Phys. 126 064503(2007).

Structural anomalies for a three dimensional isotropic core-softened potential
A. B. de Oliveira, P. A. Netz, T. Colla and Marcia C. Barbosa
J. Chem. Phys. 125 124503 (2006).

Thermodynamic and Dynamic Anomalies for Dumbbell Molecules Interacting with a Repulsive Ramp-Like Potential
P. A. Netz, S. Buldyrev, M. C. Barbosa and H. E. Stanley
Phys. Rev. E 73 061504 (2006).

Linear DNA low efficiency transfection by liposome can be overcome by the use of amphiphilic cationic lipid as charge neutralizer
A von Groll, Y. Levin, M. C. Barbosa and A. P. Ravazzolo
Biotechnology Progress 22 1220 (2006).

Thermodynamic and Dynamic Anomalies for a Three Dimensional Isotropic Core-Softened Potential
A. B. de Oliveira, P. A. Netz, T. Colla and Marcia C. Barbosa
J. Chem. Phys. 124 84505 (2006).

Liquid Polymorphism and Double Criticality in a Lattice Gas Model
Vera B. Henriques, Nara Guisoni, Marco Aurelio Barbosa, Marcelo Thielo and Marcia C. Barbosa
Mol. Phys. 103 3001 (2005).

Flexible Polyelectrolytes with Monovalent Salt
Paulo S. Kuhn and Marcia C. Barbosa
Physica A 357 142(2005).

Charge Reversal of colloidal particles
Salette Pianegonda, Marcia C. Barbosa and Yan Levin
Europhysics Letters 71 831(2005).

A simple non-local approach to treat size correlations within Poisson-Boltzmann theory
Dmytro Antypov, C. Holm and Marcia C. Barbosa
Phys. Rev. E 71 061106 (2005).

Liquid Polymorphism and Density Anomaly in a Lattice Gas Model
Vera B. Henriques and Marcia C. Barbosa
Phys. Rev. E 71 031504 (2005).

Density anomaly in a competing interactions lattice gas model
Alan B. de Oliveira and Marcia C. Barbosa
J. Phys.: Condensed Matter 17 399 (2005).

Density Anomaly in Core-Softened Lattice Gas
Aline Lopes Balladares and Marcia C. Barbosa
J. Phys.: Condensed Matter 16 8811(2004).

Size Correlations in Charged Colloidal Suspensions

Alexandre G. Derivi and Marcia C. Barbosa

Physica A 344 462 (2004).

Correlation induce Association in Polyelectrolyte Solutions

Marcelo Bruno, Liacir Lucena and Marcia C. Barbosa

Physica A 342 54 (2004).

Dynamic Anomalies of Fluids with Isotropic Doubled-Ranged Potential

Paulo A. Netz, J. Fernando Raymundi, Adriana Simone Camera and Marcia C. Barbosa

Physica A 342 48 (2004).

Screening in of Spherical Colloids Beyond Mean-Field- A Local Density Functional Approach

Marcia C. Barbosa, Markus Deserno, C. Holm and R. Messina

Phys. Rev. E 69 51401 (2004).

Computer Simulation of Dynamical Anomalies in Stretched Water

Paulo Netz, F. Starr, Marcia C. Barbosa and H. E. Stanley

Brazilian Journal of Phys. 34, 24(2004).

Complexation in Polyelectrolyte Solution with Divalent Surfactants

Marcelo B. A. Silva, Liacir S. Lucena and Marcia C. Barbosa

Physica A, 331, 42 (2004).

Statistical Phys. and Liquid Water at Negative Pressures

H. E. Stanley, Marcia C. Barbosa, S. Mossa, Paulo A. Netz, F. Sciortino, F. W. Starr and M. Yamada

Physica A, 315, 281 (2002).

Relation between Structural and Dynamical Anomalies in Supercooled Water

Paulo A. Netz, Francis W. Starr, Marcia C. Barbosa and H. Eugene Stanley

Physica A 314, 470 (2002).

Translational and Rotational Diffusion in Stretched Water

Paulo A. Netz, Francis W. Starr, Marcia C. Barbosa and H. Eugene Stanley

J. of Molecular Liquids 101, 159-168 (2002).

Density Functional Approach for Charged Systems

Marcia C. Barbosa,

J. Phys.:Condensed Matter 14, 2461-2465 (2002) .

Ion-ion Correlations in Charged Colloidal Suspensions

Marcia C. Barbosa,

Physica A 304, 170 (2002).

The Isothermal Binodal Curves Near a Critical Endpoint

Young C. Kim, Michael E. Fisher and Marcia C. Barbosa

Journal of Chem. Phys., 115, 933 (2001).

Static and Dynamic Properties of Stretched Water

Paulo A. Netz, Francis W. Starr, H. Eugene Stanley, and Marcia C. Barbosa
Journal of Chem. Phys., 115, 344 (2001).

Criticality in confined ionic fluids

J. E. Flores-Mena, Marcia C. Barbosa and Yan Levin,
Phys. Rev. E, 63, 66104 (2001).

Charge renormalization and phase separation in colloidal suspensions

Alexandre Diehl, Marcia C. Barbosa and Yan Levin,
Europhys. Lett., 53, 86 (2001).

Criticality in polar fluids

Yan Levin, Paulo Kuhn and Marcia C. Barbosa
Physica A, 292, 129 (2001).

A Stable Local Density Approach to Ion-Ion Correlations

Marcia C. Barbosa, Markus Deserno and Christian Holm,
Europhys. Lett., 52, 80 (2000).

Effects of hydrophobicity in DNA surfactant complexation, Physica A: Statistical Mechanics and its Application

Paulo S. Kuhn, Yan Levin and Marcia C. Barbosa
Physica A, 283, 113 (2000).

Density Functional theory for attraction between like-charged plates

Alexandre Diehl, Mario N. Tamashiro, Marcia C. Barbosa and Yan Levin,
Physica A, 274, 433 (1999).

Charge inversion in DNA--amphiphile complexes: Possible application to gene therapy

Paulo S. Kuhn, Yan Levin and Marcia C. Barbosa
Physica A, 274, 8 (1999).

Complexation of DNA with Cationic Surfactant

Paulo S. Kuhn, Marcia C. Barbosa and Yan Levin,
Physica A, 269, 278 (1999).

The one-component plasma: a conceptual approach

M. N. Tamashiro, Yan Levin and Marcia C. Barbosa
Physica A, 268, 24 (1999).

Polyelectrolyte Solutions with Multivalent Salt

Paulo S. Kuhn, Yan Levin and Marcia C. Barbosa
Physica A 266, 417 (1999) .

Phase-Boundaries near Critical End points: Applications to Cross-linked Copolymers

Marcia C Barbosa

Il Nuovo Cimento 20D, 2005 (1998) .

Complex Formation Between Polyelectrolytes and Ionic Surfactant

Paulo S. Kuhn, Yan Levin and Marcia C. Barbosa

Chem. Phys. Lett. 298, 51 (1998) .

Rod-like Polyelectrolytes in Presence of Monovalent Salt

Paulo S. Kuhn, Yan Levin and Marcia C. Barbosa

Macromolecules 31, 8347 (1998).

Debye-Huckel theory for charged colloids,

M. N. Tamashiro, Yan Levin and Marcia C. Barbosa

Physica A 258, 341 (1998).

Phase-diagram for Irregular and Non-Symmetric Cross-linked Polymer Blends

Edilson Vargas and Marcia C. Barbosa

Physica A 257, 312 (1998).

Donnan Equilibrium and Osmotic Pressure for Charged Colloidal Lattices

M. N. Tamashiro, Yan Levin and Marcia C. Barbosa

Eur. Phys. Journal B 1, 337 (1998).

Liquid State Theory of Charged Colloids

Yan Levin, Marcia C. Barbosa and Mario Tamashiro,

Europhys. Lett 41, 123 (1998).

Sine-Gordon mean field theory of a Coulomb gas

Alexandre Diehl, Marcia C. Barbosa and Yan Levin,

Phys. Rev. E 56, 619(1997).

Melting of a Colloidal Crystal

P. S. Kuhn, A. Diehl, Y. Levin and M. C. Barbosa

Physica A 247, 235 (1997).

Thermodynamic Theory of Counterion Association in Rigid Polyelectrolytes

Yan Levin and Marcia C. Barbosa

J. Phys. II 7, 37 (1997).

A Neutral Polyampholyte in an ionic solutions

Alexandre Diehl, Marcia C. Barbosa and Yan Levin

Phys. Rev. E 54, 6516 (1996).

Phase Transitions of a Neutral Polyampholyte

Marcia C. Barbosa and Yan Levin

Physica A 231, 467 (1996).

Conformational Phase Transitions of a Polyampholyte in a Low dielectric Solvent

Yan Levin and Marcia C. Barbosa

Europhysics Letters, 31, 513 (1995).

Singularities near Critical and Tricritical End Points: Thermodynamics and Applications

E. L. de Santa Helena and Marcia C. Barbosa

Physica A 219, 408 (1995).

Critical Behavior of heavy magnetic rare-earth materials: a physical realization of a Lifshitz point

Marcia C. Barbosa

Physica B, 215, 286 (1995).

Microemulsion Model with oil-water anisotropy

Marcia C. Barbosa and Marcos Frichebruder

Phys. Rev. E 51, 4690 (1995).

Singularities near Critical and Bicritical End Points: Applications to an Isomorphous Transition

E.L. de Santa Helena, Marcia C. Barbosa

Physica A 208, 479 (1995).

Ising model with isotropic competing interactions in the presence of a field

Marcia C. Barbosa,

Il Nuovo Cimento 16D, 795 (1994).

Ising model with isotropic competing interactions in the presence of a field: A tricritical Lifshitz point evidence

Marcia C. Barbosa

Phys. Rev. E 48, 1744 (1993).

Fluctuation-induced first-order transitions in systems with spatially isotropic competing interactions

Marcia C. Barbosa

Phys. Rev. B 46, 3672 (1992).

Phase Boundaries near Critical Endpoints. III. Correction to Scaling and Spherical Models

Marcia C. Barbosa

Phys. Rev. B 45, 5199 (1992).

Critical Endpoints in the Spherical model with rapidly decaying power law couplings

Marcia C. Barbosa

Physica A 177, 153 (1991).

Phase Boundaries near Critical Endpoints. I. Thermodynamics and Universality
Michael E. Fisher e Marcia C. Barbosa,
Physical Review B 43, 11177 (1991).

Phase Boundaries near Critical Endpoints. II. General Spherical Models
Marcia C. Barbosa and Michael E. Fisher,
Physical Review B 43,10635 (1991).

Influence of Fluctuations on Spin Systems with Spatially Isotropic Competing Interactions
Marcia C. Barbosa,
Phys. Rev. B 42, 6363 (1990).

Influence of Fluctuations on the Magnetization of Cubic Ferromagnets
Marcia C. Barbosa and W. K. Theumann,
Journal of Phys. Condensed Matter 1, 8747 (1989).

Equation of State for the Three State Potts Model with Symmetry-Breaking Perturbations
Marcia C. Barbosa and W. K. Theumann,
Journal of Phys. Condensed Matter 1, 6059 (1989).

Non-Universality of Ratios of Critical and Tricritical Parameters in the Three State Potts Model
with Symmetry Breaking Perturbations
Marcia C. Barbosa and W. K. Theumann,
Phys. Rev. B 38, 9160 (1988).

Renormalization and Phase Transition in Potts Field Theory with Quadratic and Trilinear Symmetry
Breaking
Marcia C. Barbosa, M. A. Gusmão and W. K. Theumann
Phys. Rev. B 34, 3165 (1986).

Gender

Female Researchers in Science in Brazil:the Scissors Effect
Grasiele Bezerra, Daniela Lazaro, Aruquia Peixoto, Maria Margaret Lopes, Carolina Horta
Andrade, Helena Nusseinzweig Lopes and Marcia C. Barbosa
In: La Brecha de Género en Matemática, Computación y Ciencias Naturales, Lilia Meza Montes
and Silvina Ponce Dawson organizadoras, Sociedad Mexicana de Fisica (2019)

Energy and Gender: An assessment on gender equality in the energy sector in Brazil
Juliana Falcão Alexandre Strapasson, Hirdan Medeiros, Nathália Weber and Marcia Barbosa
Report to British Embassy, Prosperity Fund, (2019)

Teorema de Emmy Nother, 100 anos: Alegoria da Misoginia em Ciência
Roberta Areas, Marcia C. Barbosa, Ademir E. Santana
Rev. Bras. Ensino Física 41, 1 (2019)

El Grupo de Trabajo sobre Mujeres en Física de la Unión Internacional de Física Pura y Aplicada y su Impacto en Latinoamérica

Alba Avila Bernal, Marcia C. Barbosa, Maria Luisa Ceron Loayza, Lilia Meza Montes and Silvina Ponce Dawson

In: El Grupo de Trabajo sobre Mujeres en Física de la Unión Internacional de Física Pura y Aplicada y su Impacto en Latinoamérica, Sociedad Mexicana de Fisica ed. (2018).eographic and

Gender Diversity in the Brazilian Academy of Sciences

N. C. Ferrari, R. Martell, Daniela H. Okido, Grasielle Romanzini, Viviane Magnan, Marcia C. Barbosa and Carolina Brito

Anais de Academia Brasileira de Ciencias 90, 2243 (2018).

Education inBrazil

Marcia C. Barbosa

Physics in Canada 71 98 (2015).

Gender Equity in the Brazilian Physics Community at Present Day

Elisa Maria Baggio Saitovitch, Marcia Cristina Barbosa, Renata Zukanovich Funchal, Suani Tavares Rubim de Pinho, Ademir Eugenio de Santana

Proceedings of Fifth IUPAP International Conference on Women in Physics
AIP Conference Proceedings 1697, 060007 (2015).

Women still face leaky pipeline

Marcia C. Barbosa

Women and physics in Brazil: Publications, citations and H index

Jeferson J. Arenzon, Patricia Duarte, Solange Cavalcanti, and Marcia C. Barbosa

Proceedings of Forth IUPAP International Conference on Women in Physics
AIP Conference Proceedings 1517, 78 (2013).

Climbing the Academy Ladder in Brazil: Physics

Monica Alonso Cotta, Marila J. Caldas, and Marcia C. Barbosa

Proceedings of Third IUPAP International Conference on Women in Physics
AIP Conference Proceedings 1119, 87 (2009).

Site Visits: Assessing and Improving the Climate for Women in Physics

Marcia Barbosa and Diane Grayson

Proceedings of Third IUPAP International Conference on Women in Physics
AIP Conference Proceedings 1119, 14 (2009).

Organizing Women in Physics Working Group

Corinna Kausch, Gillian Butcher, Marcia Barbosa, and Rachel Ivie

Proceedings of Third IUPAP International Conference on Women in Physics, AIP Conference Proceedings 1119, 20 (2009).

A Secret History

Marcia C. Barbosa

Physics World 20, 40 January (2007).

Report on the Conference of Latin American Women in Exact and Life Sciences
Solange Bessa Cavalcanti, Rita M. Zorzenon dos Santos, Marcia C. Barbosa, and Elisa Saitovitch
Proceedings of Second IUPAP International Conference on Women in Physics
AIP Conference Proceedings 795, 191 (2005).

Equity for Women in Physics
Marcia C. Barbosa
Physics World 16, July (2003).

Women in Physics in Brazil
Marilia Caldas and Marcia C. Barbosa
Proceedings of IUPAP International Conference on Women in Physics
AIP Conference Proceedings 268, 135 (2002).

Science and Education Policy

Article Processing Charge for Publishing Open Access Articles: the Brazilian Scenario
Cleusa Pavan and Marcia C. Barbosa
Scientometrics 117 805 (2018).

Scientometric indicators for Brazilian research on High Energy Physics, 1983-2013
Gonzalo Rubem Alvarez, Samile Andrea de Souza Vanz and Marcia C. Barbosa
Annals of the Brazilian Academy of Sciences 89 2525 (2017).

Universality, Correlations, and Rankings in the Brazilian Universities National Admission
Examinations
Roberto da Silva, L. Lamb and Marcia C. Barbosa
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