

Publicaciones 2017

Departamento de Computación y Robótica

Lorena Díaz González

-Maria Abdelaly Rivera-Gomez, Lorena Díaz, Surendra P. Verma, Armstrong-Altrin John S.; Multidimensional classification of magma types for altered igneous rocks and application to their tectonomagmatic discrimination and igneous provenance of siliciclastic sediments. *Lithos.* **2017**, 278-281 (321 - 330) 10.1016/j.lithos.2017.02.005

-Verma, S.P., Rosales-Rivera, M., Díaz-González, L., Quiroz-Ruiz, A.; Improved composition of hawaiian basalt BHVO-1 from the application of two new and three conventional recursive discordancy tests. *Turkish Journal of Earth Sciences.* **2017**, 26 5 (331 - 353) 10.3906/yer-1703-16

-Lorena Diaz, Mauricio Rosales Rivera, Javier A. Perez-García; Erratum to: Quality control in geochemistry from a comparison of four central tendency and five dispersion estimators and example of a geochemical reference material. *Arabian Journal of Geosciences.* **2017**, 10.1007/s12517-016-2830-y

Bruno Lara Guzmán

-Miranda, L., López-Cruz, I.L., Lara, B., Schmidt, U.; Graphical representation of model performance as an aid for input selection in greenhouse models. *Acta Horticulturae.* **2017**, 1182 (227 - 234) 10.17660/ActaHortic.2017.1182.27

-Miranda, L., Lara, B., Rocksch, T., Dannehl, D., Schmidt, U.; Neural networks for simulation of transpiration and photosynthesis in a semi-closed greenhouse. *Acta Horticulturae.* **2017**, 1170 (193 - 199) 10.17660/ActaHortic.2017.1170.22

-Palacios-Leyva, R., Aldana-Franco, F., Lara-Guzmn, B., and Montes-Gonzlez, F; The impact of population composition for cooperation emergence in evolutionary robotics. *International Journal of Combinatorial Optimization Problems and Informatics.* **2017**, 8 (3) (20 - 32) <https://ijcopi.org/index.php/ojs/article/view/15>

Jorge Hermosillo Valadez

-Fernández-Reyes, F.C., Hermosillo-Valadez, J., Montes-y-Gómez M.; A prospect-guided global query expansion strategy using word embeddings. *Information Processing and Management.* **2017**, 54 1 (1 - 13) 10.1016/j.ipm.2017.09.001

Nodari Vakhania

- Vakhania, N; Probabilistic quality estimations for combinatorial optimization problems. *Georgian Mathematical Journal.* **2017**, (Articles not published yet, but available online A - Articles not published yet, but available online A) 10.1515/gmj-2017-0041.
- Chinos, E., Vakhania, N.; Adjusting scheduling model with release and due dates in production planning. *Cogent Engineering.* **2017**, 4 1 (1 - 23) 10.1080/23311916.2017.1321175

Departamento de Física

Miguel Eduardo Mora Ramos

- J. Escoria-García, D. Becerra-García, and M. E. Mora-Ramos; Spatial localization of electromagnetic modes in noise-like random one-dimensional dielectric heterostructures. *Journal of the Optical Society of America B.* **2017**, 34 2 (507 - 515) 10.1364/JOSAB.34.000507
- Vinasco, J.A., Londoño, M.A., Restrepo, R.L., Mora-Ramos, M.E.; Feddi, E.M., Radu, A., Kasapoglu, E., Morales, A.L., Duque, C.A.; Optical absorption and electroabsorption related to electronic and single dopant transitions in holey elliptical GaAs quantum dots. *Physica Status Solidi (B) Basic Research. Articles not published yet, but available online Article in Press.* **2017**, 10.1002/pssb.201700470
- Feddi, E., Talbi, A., Mora-Ramos, M.E., El Haouari, M., Dujardin F., Duque, C.A.; Linear and nonlinear magneto-optical properties of an offcenter single dopant in a spherical core/shell quantum dot. *Physica B: Condensed Matter.* **2017**, 524. (64 - 70) 10.1016/j.physb.2017.08.057
- Martínez-Orozco, J.C., Rojas-Briseño, J.G., Rodríguez-Magdaleno K.A., Rodríguez-Vargas, I., Mora-Ramos, M.E., Restrepo, R.L. Ungan, F., Kasapoglu, E., Duque, C.A.; Effect of the magnetic field on the nonlinear optical rectification and second and third harmonic generation in double δ-doped GaAs quantum wells. *Physica B: Condensed Matter.* **2017**, 525 (30 - 35) 10.1016/j.physb.2017.08.082
- Gómez-Urrea, H.A., Escoria-García, J., Duque, C.A., Mora-Ramos M.E.; Analysis of light propagation in quasiregular and hybrid Rudin-Shapiro one-dimensional photonic crystals with superconducting layer. *Photonics and Nanostructures - Fundamentals and Applications.* **2017**, 27(1 - 10) 10.1016/j.photonics.2017.08.001
- Ospina, D.A., Duque, C.A., Mora-Ramos; M.E., Correa, J.D.; Effects of external electric field on the optical and electronic properties of blue phosphorene nanoribbons: A DFT study. *Computational Materials Science.* **2017**, 135 (43 - 53) 10.1016/j.commatsci.2017.03.048
- Tulupenko, V. , Duque, C.A., Morales; A.L., Tiutiunnyk, A., Demediuk, R.; Dmytrychenko, T., Fomina, O., Akimov; V., Restrepo, R.L., Mora-Ramos, M.E; Background impurities in Si0.8 Ge0.2/Si/Si0.8 Ge0.2 n-type δ-doped QW. *Physica Status Solidi (B) Basic Research.* **2017**, 254 (4) (1600464 - 1600464) 10.1002/pssb.201600464

-Ospina, D A;Mora-Ramos, M E;Duque, C A; Effects of hydrostatic pressure and electric field on the electron-related optical properties in GaAs multiple quantum well. *Journal of Nanoscience and Nanotechnology*. American Scientific Publishers. **2017**, 17 2 (1247 - 1254) 10.1166/jnn.2017.12567

-Tiutiunnyk, A;Mora-Ramos, M E;Morales, A L;Duque, C M;Restrepo, R L;Ungan, F;Martínez-Orozco, J C;Kasapoglu, E;Duque, C A; Electron raman scattering in a double quantum well tuned by an external nonresonant intense laser field. *Optical Materials*. **2017**, 64 (496 - 501) 10.1016/j.optmat.2017.01.001

-H.A. Gómez-Urrea, C.A. Duque, M.E. Mora-Ramos; Bulk-like phonon polaritons in one-dimensional photonic superlattices. *Photonics and Nanostructures*. **2017**, 24 (7 - 11) 10.1016/j.photonics.2016.12.003

-J. G. Rojas-Briseño, J. C. Martínez-Orozco, M. E. Mora-Ramos; States of direct and indirect excitons in strained zinc-blende GaN/InGaN asymmetric quantum wells. *Superlattices and Microstructures*. **2017**, 112 (574 - 583) 10.1016/j.spmi.2017.10.017

-U. Yesilgul, H. Sari, F. Ungan, J. C. Martínez-Orozco, R. L. Restrepo, M. E. Mora-Ramos, C. A. Duque, I. Sökmen; Effects of electromagnetic fields on the nonlinear optical properties of asymmetric double quantum well under intense laser field. *Chemical Physics*. **2017**, 485-486 (81 - 87) 10.1016/j.chemphys.2017.01.013

-Gil-Corrales, A;Morales, A L;Restrepo, R L;Mora-Ramos, M E;Duque, C A; Donor-impurity-related optical response and electron Raman scattering in GaAs cone-like quantum dots. *Physica B: Condensed Matter*. **2017**, 507 (76 - 83) 10.1016/j.physb.2016.11.033

-M. A. Londoño, R. L. Restrepo, J. H. Ojeda, H. V. Phuc, M. E. Mora-Ramos, E. Kasapoglu, A. L. Morales, C. A. Duque; Donor impurity-related optical absorption in GaAs elliptic-shaped quantum dots.. *Journal of Nanomaterials*. **2017**, 2017 (1 - 18) 10.1155/2017/5970540

-E. Iqraoun, A. Sali, A. Rezzouk, E. Feddi, F. Dujardin, M. E. Mora-Ramos, C. A. Duque; Donor impurity-related photoionization cross section in GaAs cone-like quantum dots under applied electric field. *Philosophical Magazine*. **2017**, 90(1145 - 1463) 10.1080/14786435.2017.1302613

-Mora-Ramos, H. A. Gómez-UrreaC. A. Duquel. V. Pérez-QuintanaM. E.; Light propagation in two-dimensional photonic crystals based on uniaxial polar materials: results on polaritonic spectrum. *Applied Physics B*. **2017**, 123 66 (1 - 8) 10.1007/s00340-017-6654-6

-M. El Haouari, E. Feddi, F. Dujardin, R. L. Restrepo, M. E. Mora-Ramos, C. A. Duque; Polaronic effects on the off-center donor impurity in AlAs/GaAs/SiO₂ spherical core/shell quantum dots. *Superlattices and Microstructures*. **2017**, 111 (457 - 465) 10.1016/j.spmi.2017.06.059

-Correa, J D;Mora-Ramos, M E;Duque, C A; Donor impurity states in semiconductor zincblende nitride quantum systems as a source of nonlinear optical response. *Journal of Nanoscience and Nanotechnology*. **2017**, 17 2 (1517 - 1524) 10.1166/jnn.2017.13062

-Monsalve-Calderón, K;Gil-Corrales, A;Morales, A L;Restrepo, R L;Mora-Ramos, M E;Duque, C A; Electron Raman scattering and raman gain in pyramidal semiconductor quantum dots. *Journal of Nanoscience and Nanotechnology*. American Scientific Publishers. **2017**, 17 2 (1140 - 1148) 10.1166/jnn.2017.12657

Rolando Pérez Álvarez

-Villegas, Diosdado;Arriaga, J.;De León-Pérez, Fernando;Pérez-Rfautlvarez, R.; Goos-Hänchen effect for optical vibrational modes in a semiconductor structure. *Journal of Physics Condensed Matter*. **2017**, 29 12 10.1088/1361-648X/aa582b

-Rodríguez-Magdaleno, K. A.;Pérez-Álvarez, R.;Martínez-Orozco, J. C.;Pernas-Salomón, R.; Multi-shell spherical GaAs/Al_xGa_{1-x}As quantum dot shells-size distribution as a mechanism to generate intermediate band energy levels. *Physica E: Low-Dimensional Systems and Nanostructures*. North-Holland. **2017**, 88 (142 - 148) 10.1016/j.physe.2017.01.007

-de la Luz Silba-Vélez, M., Contreras-Solorio, D.-A., Pérez-Álvarez, R. and Cabrera, C.I.; Finite one-dimensional photonic crystal with Gaussian modulation: Transmission and escape. *Optics and Photonics Journal*. **2017**, 7 (170 - 180) 10.4236/opj.2017.710017

-Reyes, M. A.;Otero, J. A.;Pérez-Álvarez, R.; Interfacial waves in an A/B/A piezoelectric structure with electro-mechanical imperfect interfaces. *Journal of Mechanics of Materials and Structures*. **2017**, 12 4 (457 - 470) 10.2140/jomms.2017.12.457

Federico Vázquez Hurtado

-Vázquez, F;Figueroa, A;Rodríguez-Vargas, I; Nonlocal and memory effects in nanoscaled thermoelectric layers. *Journal of Applied Physics*. AIP Publishing. **2017**, 121 1 (14311 - 14311) 10.1063/1.4973588

Oscar Gerardo Sotolongo Costa

-Oscar Sotolongo-Costa, Luis M. Gaggero-Sager, Fernando Maestu, James T. Becker, Oscar Sotolongo-Grau; The cognitive network as dependent on metabolic activity and synaptic structure: a trip through cognitive decline to dementia. *Alzheimer's and Dementia*. **2017**, 11 7 (P328 - P329) 10.1016/j.jalz.2015.07.477

-Costa, Oscar Sotolongo; Entropy, earthquakes, and tumors. *First Complex Systems Digital Campus World E-Conference 2015*. Springer, Cham. **2017**, (245 - 253) https://www.researchgate.net/profile/O_Sotolongo-Costa/publication/293225907_Entropy_Earthquakes_and_Tumors/links/56b6c57a08ae44bb3307ad0d.pdf

-Sotolongo-Costa, Oscar;Gaggero-Sager, L M;Becker, J T;Maestu, F;Sotolongo-Grau, O;Initiative, Alzheimer's Disease Neuroimaging; A physical model for dementia. *Physica A: Statistical Mechanics and its Applications*. North-Holland. **2017**, 472(86 - 93) 10.1016/j.physa.2016.12.086

-García-Cervantes, H., Gaggero-Sager, L.M.;Díaz-Guerrero, D.S., Sotolongo-Costa, O.;Rodríguez-Vargas, I.; Self-similar conductance patterns structures, graphene cantor-like. *Scientific Reports*. **2017**, 7 (1) (617 - 617) 10.1038/s41598-017-00611-z

-E. E. Ramirez-Miquet, J. Perchoux, R. Da Costa Moreira, Y. Zhao, A. Luna-Arriaga, C. Tronche And O. Sotolongo-Costa; Optical feedback interferometry: from basics to applications of laser flowmetry. *Revista Cubana de Física.* **2017**, 34 1 (48) - 57) [http://www.revistacubanadefisica.org/RCFextradata/OldFiles/2017/34-1/RCF%202017%20No1%20\(48\).pdf](http://www.revistacubanadefisica.org/RCFextradata/OldFiles/2017/34-1/RCF%202017%20No1%20(48).pdf)

-Weberszilp J., Sotolongo-Costa O.; Structural derivative model for Tissue radiation response. *Journal of advances in physics.* **2017**, v. 13, n. 4 (4779 - 4785) 10.24297/jap.v13i4.5980

Markus Müller Bender

-G. Corkidi, F. Montoya, P. Hernández-Herrera, W.A: Rios-Herrera, M.F.; Müller, C.L. Treviño, A. Darszon; Are there intracellular Ca²⁺ oscillations correlated with flagellar beating in human sperm? A three vs. twodimensional analysis. *Mol. Hum. Reprod.* **2017**, 23 9 (583 - 593) 10.1093/molehr/gax039

-Wady A. Rios Herrera, Joaquín Escalona Segura, Daniel Rivera López, Markus F. Müller; On the estimation of phase synchronization, spurious synchronization and filtering. *Chaos: An Interdisciplinary Journal of Nonlinear Science.* **2017**, 26 12(123106 - 123106) 10.1063/1.4970522

-González-Espinoza, A., Larralde, H., Martínez-Mekler, G., Müller,M.; Multiple scaling behaviour and nonlinear traits in music scores. *Royal Society Open Science.*, **2017**, 4 12 (art. no. 171282. - art. no. 171282.) 10.1098/rsos.171282

Raúl Salgado García

-Hidalgo-Soria, M., Salgado-García, R.; Scarce defects induce anomalous diffusion. *Journal of Statistical Mechanics: Theory and Experiment.* **2017**, 2017 (4) (043301 - 043301) 10.1088/1742-5468/aa6505

Claudio Marcelo Zicovich-Wilson Steinman

-S Salustro, Y Nöel, CM Zicovich-Wilson, P Olivero, R Dovesi; The V+ I defects in diamond: An ab initio investigation of the electronic structure, of the Raman and IR spectra, and of their possible recombination. *The Journal of chemical physics.* **2017**, 145 18 (184701 - 184701) 10.1063/1.4966635

-Karell Valdivié-Cruz, Anabel Lam, Claudio M Zicovich-Wilson; Full mechanism of zeolite dealumination in aqueous strong acid medium: Ab initio periodic study on H-clinoptilolite. *The Journal of Physical Chemistry C.* **2017**, 121 5 (2652 - 2660) 10.1021/acs.jpcc.6b09794

-Alessandro Erba, Dominique Caglioti, Claudio Marcelo Zicovich-Wilson, Roberto Dovesi; Nuclear-relaxed elastic and piezoelectric constants of materials: Computational aspects of two quantum-mechanical approaches. *Journal of computational chemistry.* **2017**, 38 5 (257 - 264) 10.1002/jcc.24687

-Simone Salustro, Giuseppe Sansone, Claudio M Zicovich-Wilson, Yves Nöel, Lorenzo Maschio, Roberto Dovesi; The A-center defect in diamond: quantum mechanical characterization through the infrared spectrum. *Physical Chemistry Chemical Physics.* **2017**, 19 22 (14478 - 14485) 10.1039/c7cp00093f.

-Ramírez-Solís, A;Zicovich-Wilson, C M;Hernández-Lamoneda, R;Ochoa-Calle, A J; Antiferromagnetic vs. non-magnetic ϵ phase of solid oxygen. Periodic density functional theory studies using a localized atomic basis set and the role of exact exchange. *Physical Chemistry Chemical Physics*. Royal Society of Chemistry. **2017**, 19 (2826 - 2826) 10.1039/C6CP07445F

Aldo Figueroa Lara

-CG Lara, A Figueroa, S Cuevas; Nested dipolar vortices driven by electromagnetic forces in a thin liquid metal layer..*Magnetohydrodynamics* (0024-998X). **2017**, 53 (1) 1) <http://web.a.ebscohost.com/ehost/pdfviewer/pdfviewer?vid=1&sid=8bd3415b-25ee-4592-9ef3-541223869005%40sessionmgr4009>

-J Román, A Figueroa, S Cuevas; Wake patterns behind a magnetic obstacle in an electrolyte layer.*Magnetohydrodynamics*. **2017**, 53 1 (55 66) <http://web.b.ebscohost.com/ehost/pdfviewer/pdfviewer?vid=0&sid=071f33eb-580a-4b9b-984e-8cd5397c4eba%40sessionmgr120>

-Figueroa, Aldo;Cuevas, Sergio;Ramos, Eduardo; Lissajous trajectories in electromagnetically driven vortices. *Journal of Fluid Mechanics*. Cambridge University Press. **2017**, 815 (415 - 434) 10.1017/jfm.2017.55

-Vázquez, F;Figueroa, A;Rodríguez-Vargas, I; Nonlocal and memory effects in nanoscaled thermoelectric layers. *Journal of Applied Physics*. AIP Publishing. **2017**, 121 1 (14311 - 14311) 10.1063/1.4973588

-Fernando Garzón, Aldo Figueroa; The study on the flow generated by an array of four flettner rotors: Theory and Experiment. *Applied Mathematics*. **2017**, 8 12 (1851 - 1851) 10.4236/am.2017.812132

Alejandro Ramírez Solís

-Ramírez-Solís, A;Zicovich-Wilson, C M;Hernández-Lamoneda, R;Ochoa-Calle, A J; Antiferromagnetic vs. non-magnetic ϵ phase of solid oxygen. Periodic density functional theory studies using a localized atomic basis set and the role of exact exchange. *Physical Chemistry Chemical Physics*. Royal Society of Chemistry. **2017**, 19 (2826 - 2826) 10.1039/C6CP07445F

-Leon-Pimentel, C.;Amaro-Estrada, JI;Saint-Martin, Humberto;Ramirez-Solis, Alejandro; Born-Oppenheimer molecular dynamics studies of Pb(ii) micro hydrated gas phase clusters. *Journal of Chemical Physics*. **2017**, 146 08430710.1063/1.4976686

-A. Ramírez-Solís, J.I. Amaro-Estrada, J. Hernández-Cobos, and L. Maron; Aqueous Solvation of SmI₂: A Born–Oppenheimer Molecular Dynamics Density Functional Theory Cluster Approach. *J. Phys. Chem. A*. **2017**, 10.1021/acs.jpca.7b00910

-W.L. Mochán and A. Ramírez-Solís; How a Drug and Explosives Detector Proved Useless: Military Use of the GT200,. *IEEE Technology and Society Magazine*. **2017**, 36 2 (76 - 82) 10.1109/MTS.2017.2696601

Farook Bashir Yousif

-H. Martinez1, S. Perusquia2, M. Villa2, P. G. Reyes2, F. B. Yousif3, F. Castillo1, and U. Contreras1; Study of DC Ar–CO₂ mixture plasma using optical emission spectroscopy and mass spectrometry techniques. *Physics of Plasmas*. **2017**, 24 04350810.1063/1.4979995

-López-Patiño, J., Fuentes, B.E., Yousif, F.B., Martínez, H.; Ionization and electron capture for H+collisions with CO at low keV energy. *Physics Procedia*. **2017**, 90 (391 - 398) 10.1016/j.phpro.2017.10.001

-J. López-Patiño, B. E. Fuentes, F. B. Yousif, H. Martínez; Ionization and electron capture for H+ collisions with CO at low keV energy. *Physics Procedia*. **2017**, 90 (391 - 398) 10.1016/j.phpro.2017.10.001.

Departamento de Matemáticas

Larissa Sbitneva

-Larissa Sbitneva, Nehemías Moreno Martínez y Lucinda Serna Herrera; Experiencias en el desarrollo de la visualización de invariantes geométricos en el contexto de la visión 3d por computadora con el apoyo de Geogebra. *Acta Latinoamericana de Matemática Educativa*, **2017**, 30 (1543 - 1552) <http://clame.org.mx/uploads/actas/alme30.pdf>

-Larissa Sbitneva, Nehemías Moreno Martínez, Melissa Cervantes y Rogelio Valdés; Una propuesta didáctica para la enseñanza del determinante. *Acta Latinoamericana de Matemática Educativa*, Editorial: Comité Latinoamericano de Matemática Educativa A.C. (CLAME). **2017**, 28 (828 - 836) <http://clame.org.mx/uploads/actas/alme28.pdf>

Yuri Karlovich

-E. Espinoza-Loyola, Yu.I. Karlovich; C*-algebras of Bergman type operators with piecewise continuous coefficients over bounded polygonal domains. *Recent Trends in Operator Theory and Partial Differential Equations. The Roland Duduchava Anniversary Volume. Operator Theory: Advances and Applications*. **2017**, 258 (145 - 171) 10.1007/978-3-319-47079-5_8

-Karlovich, Y.I.; C* -Algebras of poly-bergman type operators over sectors. *Integral Equations and Operator Theory*. **2017**, 87 (3) (435 - 460) 10.1007/s00020-017-2355-0

-Karlovich, Yu. I.; Algebras of convolution type operators with piecewise slowly oscillating data on weighted Lebesgue spaces.. *Mediterr. J. Math.*. **2017**, 10.1007/s00009-017-0979-6

-Karlovich, Alexei Yu;Karlovich, Yuri I;Lebre, Amarino B; The index of weighted singular integral operators with shifts and slowly oscillating data. *Journal of Mathematical Analysis and Applications*. Elsevier. **2017**, 450 1 (606 - 630) 10.1016/j.jmaa.2017.01.052

-G. Fernández-Torres, Yu.I. Karlovich; Fredholmness of nonlocal singular integral operators with slowly oscillating data. *Integral Methods in Science and Engineering*. **2017**, 1 (95 - 105) 10.1007/978-3-319-59384-5_9

- G. Fernández-Torres, Yu.I. Karlovich; Two-sided and one-sided of Wiener-type functional operators with a shift and slowly oscillating data. *Banach J. Math. Anal.* **2017**, 3 11 (554 - 590) 10.1215/17358787-2017-0006
- A.Yu. Karlovich, Yu.I. Karlovich, A.B. Lebre; The index of weighted singular integral operators with shifts and slowly oscillating data.. *Journal of Mathematical Analysis and Applications*. **2017**, 450 1 (606 - 630) 10.1016/j.jmaa.2017.01.052
- Karlovich, Yuri I.; Algebras of convolution-type operators with piecewise slowly oscillating data on weighted lebesgue spaces. *Mediterranean Journal of Mathematics*. **2017**, 14 (182 - 182)
- Espinoza-Loyola, E., Karlovich, Y.I.; C*-algebras of Bergman type operators with piecewise continuous coefficients over domains with dini-smooth corners. *Complex Analysis and Operator Theory*. **2017**, (1 - 42) 10.1007/s11785-017-0760-7
- G. Fernández-Torres, Yu.I. Karlovich; Two-sided and one-sided of Wiener-type functional operators with a shift and slowly oscillating data.. *Banach J. Math. Anal.* **2017**, 11 3 (554 - 590) 10.1215/17358787-2017-0006
- Karlovich, AY; Karlovich, YI ; Lebre, AB; Necessary fredholm conditions for weighted singular integral operators with shifts and slowly oscillating data. *JOURNAL OF INTEGRAL EQUATIONS AND APPLICATIONS*. **2017**, 29 3 (365 - 399) 10.1216/JIE-2017-29-3-365
- Karlovich, Yuri I.; The Haseman boundary value problem with slowly oscillating coefficients and shifts. *Operator Theory: Advances and Applications*. **2017**, 259 (463 - 500) 10.1007/978-3-319-49182-0_19

Jorge Rivera Noriega

- Dominguez-Corella, A. and Rivera-Noriega, J; Una clase de dominios no cilíndricos para ecuaciones de tipo parabólico. *Lecturas Matemáticas*. **2017**, 38 2 (49 - 63) <http://www.scm.org.co/aplicaciones/revista/Articulos/1220.pdf>
- Navarro-Burruel, M. and Rivera-Noriega, J; Area integrals and the exponential square theorem for elliptic operators with coefficients supported in Whitney type cubes. *Differential Equations and Applications*. **2017**, 9 (311 - 325) 10.7153/dea-2017-09-23

Liudmila Sabinina

- Sabinina, Maria de Lourdes Merlini-GiulianiPeter PlaumannLiudmila; Half-automorphisms of Cayley–Dickson loops. *Lie Groups, Differential Equations, and Geometry*. **2017**, (109 - 125) 10.1007/978-3-319-62181-4_6