

## Memorias In Extenso Artículos Arbitrados Publicados

### Astrofísica

1. **Carramiñana, A.**, "Unravelling unidentified gamma-ray sources with the Large Millimeter Telescope", *Astrophysics and Space Science* 309, 527-530 (2007), Proceedings of the Multil-MESSENGER APPROACH TO HIGH ENERGY GAMMA-RAY SOURCES, July 4-7, 2006 - Barcelona, Spain
2. **Carramiña, A.**, "3EG J2020+4017, the gamma-Cygni source -- before GLAST", *Astrophysics and Space Science* 309, 373-378 (2007), Proceedings of THE MULTI-MESSENGER APPROACH TO HIGH ENERGY GAMMA-RAY SOURCES, July 4-7, 2006 - Barcelona, Spain
3. **Carramiña, A.**, "Gamma-Ray Astrophysics - before GLAST" in, *Solar Stellar and Galactic Connections between Particle Physics and Astrophysics*, ISBN 978-1-4020-5574-4. Berlin: Springer, 2007. p. 215-229.
4. **Carrasco, E.**, , Langarica, G., Páez, G., Pérez, C., Aguayo, F., **Reyes, J.**, "Manufacturing of frodospec red arm optics and mounts" , RMAA, Serie de conferencias, 29, 138-138, 2007.
5. **Silich, S., Tenorio-Tagle, G.**, Muñoz Tuñon, C, Palous, J., "Super massive star clusters: from superwinds to a cooling catastrophe and the re-processing of the injected gas.", Publication, Triggered Star Formation in a Turbulent ISM, Proceedings of the International Astronomical Union 2, IAU Symposium 237, 14-18 August, 2006 in Prague, Czech Republic. Cambridge: Cambridge University Press, 242-245, 2007.
6. **Silich, S.**, "Super Star Clusters and Super Star Cluster Winds", Publication *Astrophysics and Cosmology after Gamow*, Proceedings of the Gamow memorial international conference, August 8-14, 2004 in Odessa Ukraine, Cambridge Scientific Publishers, 213-224, 2007.
7. Stasinska, G., **Tenorio-Tagle, G.** Rodriguez M., Henney, W., "Oxygen rich droplets and the enrichment of the ISM", Publication, eprint arXiv0704.0160. Proceedings of the conference "The Metal Rich Universe", Cambridge University Pres.
8. Wunsch, R., Palous, J., **Tenorio-Tagle, G.**, **Silich, S.**, "HD simulations of super star cluster winds", Publicación: Triggered Star Formation in a Turbulent ISM, Proceedings of the International Astronomical Union 2, IAU Symposium 237, 14-18 August, 2006 in Prague, Czech Republic. Cambridge: Cambridge University Press, 497-497, 2007.

## Memorias In Extenso Artículos Arbitrados Publicados

9. **Tenorio-Tagle, G.**, Muñoz Tuñon, C., Perez, E., **Silich, S.**, Telles, E., "On the structure of giant HII regions and HII galaxies", Publication, Triggered Star Formation in a turbulent ISM, Proceedings of the IAU Symposium 237, 14-18 August, 2006 in Prague, Czech Republic. Cambridge: Cambridge University Pres, 238-241, 2007.
10. **Terlevich, R. J.**, González, J. J., **Chávez, M.**, **Bertone, E.**, **Carramiñana, A.**, Vázquez, S., Franco, J., Peimbert, M., Cobos, F., Bohigas, J., López, A., Cuevas, S., de Diego, J. A., Ruiz, E., Tejada, C., "Science with a Wide-field 6.5m Spectroscopic Telescope", proceedings of The 3rd Mexico-Korea Conference on Astrophysics: Telescopes of the Future and San Pedro Mártir Revista Mexicana de Astronomía y Astrofísica Serie de Conferencias 28, 55-59 (2007)
11. **Terlevich, E.** **Terlevich, R.** Luridiana, V., "Gamow Legacy and the Primordial Abundance of Light Elements", Publication Astrophysics and Cosmology after Gamow, Proceedings of the Gamow memorial international conference, August 8-14, 2004 in Odessa Ukraine, Cambridge Scientific Publishers, 37-49., 2007.
12. **Terlevich, R.**, **Terlevich, E.**, Torres-Papaqui, J.P., Cid Fernandes R., Melnick, J, Kunth, D. Gu, Q. Bressan A., 'The stellar population of active galactic nuclei", Publication Astrophysics and Cosmology after Gamow Proceedings of the Gamow memorial international conference, August 8-14, 2004 in Odessa Ukraine, 8-14 August, in Odessa Ukraine 2004, Cambridge Scientific Publishers, 225-236 , 2007.

## OPTICA

13. R. Carrada-Legaria, **V. Arrizón-Peña**. "Implementation of complex transmittances with a phase electro-optical modulator". Sixth Symposium Optics in Industry, Julio C. Gutiérrez-Vega, Josué Dávila-Rodríguez, Carlos López-Mariscal, Eds., Proc. of SPIE Vol. 6422, 642219 celebrado en Monterrey, N. L. del 8 al 9 de marzo de 2007. 642219-1-642219-12.
14. U. Ruiz-Corona, **V. Arrizon-Peña**. "Characterization of twisted liquid crystal spatial light modulators". Sixth Symposium Optics in Industry, Julio C. Gutiérrez-Vega, Josué Dávila-Rodríguez, Carlos López-Mariscal, Eds., Proc. of SPIE Vol. 6422, 642219 celebrado en Monterrey, N. L. del 8 al 9 de marzo de 2007. 642215-1-642215-12.

## Memorias In Extenso Artículos Arbitrados Publicados

15. M. L. Cruz-López, M. Alcaraz-Rivera, **J. J. Báez-Rojas**, K. Der-Kuan. "Holographic data calculating algorithm and new Digital Hologram Recorder". SPIE Photonics West 2007 celebrado en San José California del 28 de enero al 2 de febrero de 2007. 648810-1-648810-8.
16. **B. Ibarra-Escamilla**, O. Pottiez, **E. A. Kuzin**, R. Grajales-Coutiño, J. W. Haus, R. Rojas-Laguna. "Experimental investigation of a figure-eight fiber laser with a symmetrical NOLM and highly twisted fiber in the loop". Fiber Lasers IV: Technology, Systems, and Applications 2007, Proc. of SPIE Vol. 6453 celebrado en San José, CA. del 20 al 25 de enero de 2007. 645323-1-645323-9.
17. **A. Jaramillo-Núñez**, M. Lucero-Alvarez. "Construction o fan optical tiltmeter". Sixth Symposium Optics in Industry, Proceedings of SPIE Vol. 6422, Edited by Julio C. Gutiérrez-Vega, Josué Dávila-Rodríguez, Carlos López-Mariscal, Editors, no. 64220D, SPIE Digital Library celebrado en Monterrey, N. L. del 8 al 9 de marzo de 2007. 64220D-1-64220D-9.
18. M. A. Bello, **E. A. Kuzin**, B. Ibarra-Escamilla, A. Flores, R. Rojas-Laguna. "Two-stage single-pump Er-doped fiber amplifier with 55-dB amplification ns-long pulses". Fiber Lasers IV: Technology, Systems, and Applications 2007, Proc. of SPIE Vol. 6453 celebrado en San José, CA. del 20 al 25 de enero de 2007. 645322-1-645322-9.
19. R. Rojas-Laguna, J. Gutiérrez-Gutiérrez, **E. A. Kuzin**, **B. Ibarra-Escamilla**, S. Mendoza-Vazquez, J. M. Estudillo-Ayala, J. W. Haus. "Supercontinuum generation enhanced by conventional Raman amplification at pumping by nanosecond pulses from a directly modulated DFB laser". Nonlinear Frequency Generation and Conversion: Material, Devices, and Applications VI, Proc. of SPIE Vol. 6455 celebrado en San José, CA. del 20 al 25 de enero de 2007. 645516-1-645516-7.
20. M. D. I. P. Hernández-Garay, **A. Olivares-Pérez**, I. Fuentes-Tapia, J. B. R. Ruiz-Limón, E. L. Ponce-Lee. "Characterization of PVA doped with different metallic salts as conductor polymer and as holographic film sensitized with ammonium dichromate". Proceedings of SPIE Vol. 6488, Practical Holography XXI: Materials and Applications, Photonics West celebrado en San José, CA. del 28 de enero al 2 de febrero de 2007. 648803-1,648803-8.
21. S. Toxqui-López, **A. Olivares-Pérez**. "Polyelectrolyte as holographic recording medium". Proceedings of SPIE Vol. 6488, Practical Holography XXI: Materials and Applications, Photonics West celebrado en San José, CA. del 28 de enero al 2 de febrero de 2007. 648804-1,648804-7

## Memorias In Extenso Artículos Arbitrados Publicados

22. E. L. Ponce-Lee, **A. Olivares-Pérez**, J. B. R. Ruiz-Limón, M. P. Hernández-Garay, S. Toxqui-López, I. Fuentes-Tapia. "Organic photoluminescent holograms". Proceedings of SPIE Vol. 6488, Practical Holography XXI: Materials and Applications, Photonics West celebrado en San José, CA. del 28 de enero al 2 de febrero de 2007. 648805-1,648805-6.
23. M. D. I. P. Hernández Garay, **A. Olivares-Pérez**, I. Fuentes-Tapia, J. B. R. Ruiz-Limon, E. L. Ponce-Lee. "Electro-optical characteristics of holographic replication using a photopolymer and ZnCl<sub>2</sub>". Proceedings of SPIE Vol. 6488, Practical Holography XXI: Materials and Applications, Photonics West celebrado en San José, CA. del 28 de enero al 2 de febrero de 2007. 64880B-1,64880B-11.
24. J. B. R. Ruiz-Limón, **A. Olivares-Pérez**, E. L. Ponce-Lee, M. P. Hernández-Garay, S. Toxqui-López, I. Fuentes-Tapia. "Photoluminescent conductor polymer holograms". Proceedings of SPIE Vol. 6488, Practical Holography XXI: Materials and Applications, Photonics West celebrado en San José, CA. del 28 de enero al 2 de febrero de 2007. 648816-1,648816-7.
25. G. P. Trujillo Páez, **A. Olivares-Pérez**. "Hologram's in colored dichromate gelatin with natural colorant". Proceedings of SPIE Vol. 6488, Practical Holography XXI: Materials and Applications, Photonics West celebrado en San José, CA. del 28 de enero al 2 de febrero de 2007. 648817-1,648817-8.
26. M. Ortiz-Gutiérrez, K. Alemán, M. Pérez-Cortés, J. C. Ibarra-Torres, **A. Olivares-Pérez**. "Polyvinyl alcohol and crystal violet as photosensitive film". Proceedings of SPIE Vol. 6488, Practical Holography XXI: Materials and Applications, Photonics West celebrado en San José, CA. del 28 de enero al 2 de febrero de 2007. 648819-1,648819-8.
27. M. Pérez-Cortés, M. Ortiz-Gutiérrez, K. Alemán, J. C. Ibarra-Torres, **A. Olivares-Pérez**, J. Becerra-Mecías. "Micro-desplacement measurements with Moiré patterns of Fresnel zone plates films". Proceedings of SPIE Vol. 6489, Projection Display XII, Photonics West celebrado en San José, CA. del 28 de enero al 2 de febrero de 2007. 6489-15.
28. J. B. R. Ruiz-Limón, G. Wetzel, **A. Olivares-Pérez**, E. L. Ponce-Lee, M. P. Hernández-Garay, S. Toxqui-López, I. Fuentes-Tapia. "Polyvinil alcohol as photoluminescent conductive polymer". Proceedings of SPIE Vol. 6470, Organic Photonic Materials and Devices IX celebrado en San José, CA. del 28 de enero al 2 de febrero de 2007. 6470-39.
29. E. L. Ponce-Lee, **A. Olivares-Pérez**, J. B. R. Ruiz-Limón, M. P. Hernández-Garay, S. Toxqui-López, I. Fuentes-Tapia. "Photoluminescence of glucose with

## Memorias In Extenso Artículos Arbitrados Publicados

- currant colorant". Proceedings of SPIE Vol. 6470, Organic Photonic Materials and Devices IX, Photonics West celebrado en San José, CA. del 28 de enero al 2 de febrero de 2007. 6470-40.
30. S. Stepanov, E. Hernández, F. Pérez, D. García, M. Plata-Salazar, **P. Rodríguez-Montero**. "Adaptive interferometer for detection of mechanical vibrations based on dynamic population gratings in Er-doped optical fiber". Technical Digest of the 2007 Conference on Lasers and Electroptics–Europe celebrado en Munich, Alemania del 17 al 22 de junio de 2007. CC3-3-THU.
31. Z. Chen, J. Khurgin, **P. Rodríguez-Montero**, J. Lorenzo, S. Trivedi, C.C. Wang, B. Libbey, J. Habersat. "Absolute surface displacement measurement using pulsed photo-electromotive force laser vibrometer". Technical Digest of the 2007 Conference on Lasers and Electroptics celebrado en Baltimore, E.U. del 6 al 11 mayo 2007. JThD50.
32. C.C. Wang, S. Trivedi, F. Jin, Z. Chen, J. Khurgin, **P. Rodriguez-Montero**, N. S. Prasad. "Biological life signs detection using high sensitivity pulsed laser vibrometer". Technical Digest of the 2007 Conference on Lasers and Electroptics celebrado en Baltimore , E.U. del 6 al 11 mayo 2007. CWK5.
33. **A. Shcherbakov**, A. Luna-Castellanos, S. E. Balderas-Mata. "Optical modulators exploiting a multi-phonon Light scattering in TeO<sub>2</sub> structures". The SPIE , Photonics North Conference celebrado en Ottawa, Canada del 4 al 7 de junio de 2007. (Por publicarse).
34. **C. Treviño-Palacios, A. Olivares-Pérez**, O. J. Zapata-Nava, "Security system with optical key access". Sexto Simposio La Optica en la Industria, Proc. Of SPIE Vol. 6422, 642218 del 8 al 9 de marzo de 2007 en Monterrey, N. L. 642218-1-642218-6.
35. **G. Urcid-Serrano**, J. A. Nieves-Vázquez, **C. A. Reyes-G.** "Enhanced fuzzy autoassociative morphological memory for binary pattern recall". Proc. of the IV IASTED Inter. Conf. on Signal Processing, Pattern Recognition and Applications celebrado en Innsbruck, Austria, Acta Press 14 al 16 de febrero febrero de 2007. 554-013, 116-121
36. G. A. Martínez-Escalante, **C. Gutiérrez-Martínez**, **A. Carramiñana-Alonso**. "Estación de monitoreo de radiofrecuencias para el Gran Telescopio Milimétrico (GTM)". Congreso Nacional de Ingeniería Eléctrica y Electrónica del Mayab (CONIEEM) celebrado en Mérida, Yuc. del 26 al 30 de marzo de 2007. **344-350**.

## Memorias In Extenso Artículos Arbitrados Publicados

### ELECTRÓNICA

37. **W. Calleja-Arriaga**, C. Zúñiga-Islas, P. Rosales-Quintero, J. De la Hidalga-Wade, C. Reyes-Betanzo, A. Torres-Jacome, and M. Linares-Aranda "Bulk Micromachining of High Index Silicon Wafers and Possible Applications in Microchannels and Diffractive Elements", Proceedings of ASME ICNMM2007, 5<sup>th</sup> International Conference on Nanochannels, Microchannels and Minichannels, June 18-20, 2007, Puebla, Mexico, pp. 1-6.
38. **Roberto Gómez, Víctor Champac**, and Chuck Hawkins, "Stuck-Open Fault Aware in Advanced Technologies", 8<sup>th</sup> IEEE Latin American Test Workshop, March 2007.
39. **Daniel Iparraguirre, Víctor Champac**, "Design of Digital Structures Tolerant to Local Intra-Die Process Variations", IBERCHIP, March 2007.
40. **C. Muñiz-Montero**, R. Gonzalez-Carvajal, **A. Díaz-Sánchez** and J.M Rocha, "Low frequency, current mode programmable KHN filters using large-valued active resistors," IEEE International Symposium on Circuits and Systems 2007, 27-30 May 2007, Page(s):3868 – 3871.
41. **M. A. Gutiérrez de Anda**, A. Sarmiento Reyes, A. Prieto Guerrero, "A new architecture for a FM modulator based on time-varying eigenvalues", 14<sup>th</sup> International Conference Mixed Design of Integrated Circuits and Systems (MIXDES 2007), 21-23 June 2007, Ciechocinek, Poland
42. A. García-B., V. Grimalsky, **E. A. Gutiérez-D.**, and S. Koshevaya, "On quantum corrections to space charge waves in silicon", presented at the PIERS'2007 Conference held in Beijing, March 2007. Published in the PIERS proceedings, Vol. 3, No. 2, pp. 141-144.
43. **M. Moreno, A.Kosarev**, A.Torres, R.Ambrosio. "Study of a Fabrication Process and Characterization of One-Dimensional Array of Un-cooled Micro-Bolometers Based on Germanium Films Deposited by Plasma", Mater. Research Symposium, USA, San-Francisco, April, 2007.
44. **J. Plaza Castillo**, A. Torres Jacome, **O. Malik**, and N. Torres Lop "Very shallow boron junctions in Si by implantation and SOD difusión obtained by RTP" enviado al "Microelectronics Journal" enviado en abril, 2007.

## Memorias In Extenso Artículos Arbitrados Publicados

45. Blanca H. Lapizco-Encinas, Sandra Ozuna-Chacón, Marco Rito-Palomares, **Claudia Reyes-Betanzo**, Esther Collado-Arredondo, Sergio O. Martínez-Chapa. "Insulator based dielectrophoresis: effects of bulk medium properties", Proceedings of the Fifth International Conference on Nanochannels, Microchannels and Minichannels ICNMM2007, Puebla 18-20 junio, 2007.
46. **Arturo Sarmiento Reyes**, Luis Hernández Martínez y **Carlos Hernández Mejía**, "Generation of Analogue Behavioural Models in the Frequency-Domain for Linear Circuits", IBERCHIP 2007, 14-16 Marzo, 2007, Lima, Perú.
47. M. Fakhfakh , M. Loulou, N. Masmoudi, C. Sánchez-López, **E. Tlelo-Cuautle**, "Symbolic Noise Figure Analysis of CCII+s", 4<sup>th</sup> International Multi-Conference on Systems, Signals & Devices, vol. IV, ISBN: 978-9973-959-06-5, Hammamet, Tunisia, March 19-22, 2007.
48. Giselle M. Galván-Tejada, **Iclia Villordo-Jiménez** and **Ignacio E.Zaldívar-Huerta**, "Fixed-Mobile Convergence on WiMAX Using Spatial Access", 2<sup>nd</sup> IEEE/IFIP International workshop on BroadBand Convergence Networks (BcN 2007), Munich Germany, May 21-25, 2007.
49. **Aline Jaimes-Vera**, Ignacio Llamas-Garro, Alonso Corona-Chavez, **Ignacio Zaldivar-Huerta**, "Microwave Narrowband Filters using Single and Stacked Coaxial Lines", Accepted to be presented on the 8th International Symposium on RF MEMS and RF Microsystems, MEMSWAVE 2007, Barcelona, Spain, June 26-29, 2007.
50. Alberto Rochin Garcia, **Alejandro Díaz Méndez**, José Luis Vázquez González, "Fuzzy System for DOA Estimation in Mobile Communications usign a FPGA", 17th International Conference on Electronics. Comminications and Computers, 26-28 February 2007, Puebla, México.
51. Luis Abraham Sánchez Gaspariano, **Alejandro Díaz Sánchez** and Griselda Saldaña González "High-Precision Current-Based CMOS WTA/LTA Filtres"
52. Fernández Vázquez, **G. Jovanovic Dolecek**, R. Rosas Romero, " Symbolic MAPLE-Based Design of Allpole Filters," 17 th International Conference on Electronics Communications and Computers, CONIELECOMP 2007, 26-28 Febrero, 2007, Cholula, Mexico. (Proc printed in CD and esta en IEEE y INSPEC)
53. **G. Jovanovic Dolecek**, " Efficient Techniques for Improving the Frequency Response of CIC Decimation Filter for SWR Applications", IV Encuentro

## Memorias In Extenso Artículos Arbitrados Publicados

Participacion de la Mujer en la Ciencia, leon Guanajuato, Mayo de 2007. (Proc printed en CD con ISBN 978-968-9241-03-4, pp.1-5)

54. M.A. Duarte-Villaseñor, E. Tlelo-Cuautle, G. Reyes-Salgado, C.A. Reyes-García, "Síntesis automática de seguidores de voltaje usando algoritmos genéticos", VII Congreso Nacional de Ingeniería Eléctrica y Electrónica del Mayab (CONIEEM), pp. 91-97, 26-30 marzo, Mérida 2007.
55. J.M. García-Ortega, E. Tlelo-Cuautle, C. Sánchez-López, "Transformación de filtros opamp-RC a filtros Gm-C", VII Congreso Nacional de Ingeniería Eléctrica y Electrónica del Mayab (CONIEEM), pp. 85-90, 26-30 marzo, Instituto Tenológico de Mérida 2007.
56. R. Trejo-Guerra, E. Tlelo-Cuautle, "Síntesis De Funciones No Lineales Usando Espejos De Corriente CMOS", VII Congreso Nacional de Ingeniería Eléctrica y Electrónica del Mayab (CONIEEM), pp. 111-114, 26-30 marzo, Mérida 2007.
57. Jaimes-Vera Aline, Llamas-Garro Ignacio, Corona-Chavez Alonso, Zaldivar-Huerta Ignacio, "CAD Modeling of a Microwave Rectangular Coaxial Filtering Device", 17<sup>th</sup> International Conference on Electronics, Communications and Computers (CONIELECOMP 2007), Cholula, Puebla, México from the 26 to 28 of February 2007.
58. Jaimes-Vera Aline, Llamas-Garro Ignacio, Corona-Chavez Alonso, Zaldivar-Huerta Ignacio, "Review on Microwave and Millimeter Filters Using MEMS Technology", 17<sup>th</sup> International Conference on Electronics, Communications and Computers (CONIELECOMP 2007), Cholula, Puebla, México from the 26 to 28 of February 2007.

## Memorias In Extenso Artículos Arbitrados Publicados

### CIENCIAS COMPUTACIONALES

#### Internacional

59. **Selene Hernández Rodríguez, J. Francisco Martínez Trinidad, and J. Ariel Carrasco Ochoa.** "Fast Most Similar Neighbor Classifier for Mixed Data". Lecture Notes in Artificial Intelligence Vol. 4509, ISBN: 978-3-540-72664-7. ISSN 0302-9743. pp.146-158. Springer-Verlag.
60. **Rita M. Aceves-Pérez, Manuel Montes-y-Gómez and Luis Villaseñor-Pineda.** "Enhancing Cross-Language Question Answering by Combining Multiple Question Translations". CICLING 2007. Lecture Notes in Computer Science 4394, Springer 2007. pp 485-493.
61. Yulia Ledeneva, **Carlos A. Reyes-García, Alejandro Díaz-Méndez**, "AUTOMATIC ESTIMATION OF PARAMETERS FOR THE HIERARCHICAL REDUCTION OF RULES OF COMPLEX FUZZY CONTROLLERS", in the proceedings of the Fourth International Conference on Informatics in Control, Automation and Robotics (ICINCO 2007), Angers, France, May, 2007, pp 398-401, ISBN: 978-972-8865-82-5, Depósito Legal: 257879/07.

#### Nacional

62. Yulia Ledeneva, Alexander Gelbukh, **Carlos A. Reyes García** and **Rene A. García Hernández**. "Automatic Determination of Parameters for Rule Base Reduction of Complex Fuzzy Control Systems". Research in Computing Science, ISSN: 1870-4069. Advances in Computer Science and Engineering Vol.27. Mayo 2007. pp 37-48.
63. **Rosa M. Ortega-Mendoza, Esaú Villatoro-Tello, Luis Villaseñor-Pineda, Manuel Montes-y-Gómez and Eduardo F. Morales.** "On the Use of Dynamic Information for Speaker Identification". Research in Computing Science, ISSN: 1870-4069. Advances in Computer Science and Engineering Vol.27. Mayo 2007. pp 161-166.