

## PUBLICACIONES / 2007

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1. Aguilera-Granja, F and Vega, A and Rogan, J and Garcia, G. Metallic behavior of Pd atomic clusters. *Nanotechnology* 18, 365706 (2007).
2. Aguilera-Granja, F and Vega, A and Rogan, J and Orellana, W and Garcia, G. Magnetic properties of Pd atomic clusters from different theoretical approaches. *Eur. Phys. J. D* 44, 125-131 (2007).
3. Alfaro, Jorge and Broncano, Alicia and Belen Gavela, Maria and Rigolin, Stefano and Salvatori, Matteo. Phenomenology of symmetry breaking from extra dimensions. *J. High Energy Phys.*, 005 (2007).
4. Andrade, Tomas and Banados, Maximo and Rojas, Francisco. Variational methods in AdS/CFT correspondence. *Phys. Rev. D* 75, 065013 (2007).
5. Bai, M and Knorr, K and Simpson, M J and Trogisch, S and Taub, H and Ehrlich, S N and Mo, H and Volkmann, U G and Hansen, F Y. Nanoscale observation of delayering in alkane films. *Epl* 79, 26003 (2007).
6. Banados, M and Faraggi, A T and Theisen, S. N=2 supergravity in three dimensions and its Godel supersymmetric background. *Phys. Rev. D* 75, 125015 (2007).
7. Banados, Maximo. The ground state of general relativity, topological theories and dark matter. *Class. Quantum Gravity* 24, 5911-5916 (2007).
8. Benguria, R D and Depassier, M C. Speed of pulled fronts with a cutoff. *Phys. Rev. E* 75, 051106 (2007).
9. Benguria, R D and Depassier, M C and Haikala, V. Effect of a cutoff on pushed and bistable fronts of the reaction-diffusion equation. *Phys. Rev. E* 76, 051101 (2007).
10. Benguria, Rafael D and Linde, Helmut. A second eigenvalue bound for the Dirichlet laplacian in hyperbolic space. *Duke Math. J.* 140, 245-279 (2007).
11. Bergou, Janos A and Orszag, Miguel. Physical implementation of a programmable discriminator for unknown qubit states. *J. Opt. Soc. Am. B* 24, 384-390 (2007).
12. Bhuyan, H and Favre, M and Valderrama, E and Avaria, G and Chuaqui, H and Mitchell, I and Wyndham, E and Saavedra, R and Paulraj, M. Formation of hexagonal silicon carbide by high energy ion beam irradiation on Si(100) substrate. *J. Phys. D* 40, 127-131 (2007).
13. Bhuyan, H and Favre, M and Valderrama, E and Avaria, G and Guzman, F and Chuaqui, H and Mitchell, I and Wyndham, E and Saavedra, R and Paulraj, M. Effect of high energy ion irradiation on silicon substrate in a pulsed plasma device. *Appl. Surf. Sci.* 254, 197-200 (2007).
14. Cabo, Alejandro and Claro, Francisco and Perez, Alejandro and Maze, Jeronimo. Holelike analytic mean-field solutions in the fractional quantum Hall regime. *Phys. Rev. B* 76, 075308 (2007).

15. Castillo, H and Dominguez, C A and Loewe, M. A new determination of the electromagnetic nucleon form factors from QCD Sum Rules. *Nucl. Phys. B Proc. Suppl.* 164, 260-263 (2007).
16. Dominguez, Cesareo A and Jottar, Juan I and Loewe, Marcelo and Willers, Bernard. Pion form factor in the Kroll-Lee-Zumino model. *Phys. Rev. D* 76, 095002 (2007).
17. Dominguez, Cesareo A and Loewe, Marcelo and Rojas, Juan Cristobal. Heavy-light quark pseudoscalar and vector mesons at finite temperature. *J. High Energy Phys.*, 040 (2007).
18. Loewe, M and Mendizabal, S and Rojas, J C. Hadrons as Skyrmions in the presence of isospin chemical potential. *Nucl. Phys. B Proc. Suppl.* 174, 217-220 (2007).
19. Loewe, M and Mendizabal, S and Rojas, Juan Cristobal. Chemical potential as a source of stability for gravitating skyrmions. *Mod. Phys. Lett. A* 22, 3003-3011 (2007).
20. Loewe, M and Mendizabal, S and Santos, R A. Gauge dependence ambiguity and chemical potential in thermal U(1) theory. *Mod. Phys. Lett. A* 22, 2763-2773 (2007).
21. Loewe, M and Villavicencio, C. Pions in isospin dense media. *Braz. J. Phys.* 37, 520-525 (2007).
22. Mata, G J and Pestana, E and Dreyse, H and Kiwi, Miguel. A quantum exchange bias model. *Physica B* 398, 262-266 (2007).
23. Mazo-Zuluaga, J and Restrepo, J and Mejia-Lopez, J. Surface anisotropy of a Fe<sub>3</sub>O<sub>4</sub> nanoparticle: A simulation approach. *Physica B* 398, 187-190 (2007).
24. Mundarain, D and Orszag, M. Local quantum measurement discrimination. *Phys. Rev. A* 75, 012107 (2007).
25. Mundarain, D and Orszag, M. Decoherence-free subspace and entanglement by interaction with a common squeezed bath. *Phys. Rev. A* 75, 040303 (2007).
26. Munoz, Pablo Chavez and da Silva, Marcus Fernandes and Miranda, Jose Vivas and Claro, Francisco and Diniz, Raimundo Gomez. Influence of government controls over the currency exchange rate in the evolution of Hurst s exponent: An autonomous agent-based model. *Physica A* 386, 786-790 (2007).
27. Reisenegger, A and Benguria, R and Prieto, J P and Araya, P A and Lai, D. Hall drift of axisymmetric magnetic fields in solid neutron-star matter. *Astron. Astrophys.* 472, 233-240 (2007).
28. Romero, Christian P and Avila, Jonathan I and Cisternas, Edgardo and Cabrera, Guerau B and Cabrera, Alejandro L and Temst, Kristiaan and Van Bael, Margriet J. Hydrogen adsorption studies in micro-size cobalt dots. *J. Mater. Sci.* 42, 7667-7672 (2007).
29. Wallentowitz, S and Toschek, P E. Defense of Impossibility of distant indirect measurement of the quantum Zeno effect. *Phys. Lett. A* 367, 420-421 (2007).
30. Zarate, R A and Fuentes, S and Wiff, J P and Fuenzalida, V M and Cabrera, A L. Chemical composition and phase identification of sodium titanate nanostructures grown from titania by hydrothermal processing. *J. Phys. Chem. Solids* 68, 628-637 (2007).