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## SCHOLARLY PUBLICATIONS AND CREATIVE ACHIEVEMENTS

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### ARTICLES (in refereed journals):

- “Aerodynamic simulation of Indoor Flight.” *European Journal of Physics* 28 (2007), 255-265.
- De Leon, N. and J.R. Morris, "Reflection and Transmission at Dimensional Boundaries." *Physical Review D* 74, 045033 (2006) [hep-th/0608113].
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- "Dynamical Corrections to Non-RRKM Behavior." *Chem. Phys. Lett.* 189 (1992), 371.
- “Cylindrical Manifolds and Reactive Island Kinetic Theory in the Time Domain.” *J. Chem. Phys.* 96 (1992), 285.
- De Leon, N., M.A. Mehta and R.Q. Topper, “Cylindrical Manifolds in Phase Space as mediators of Chemical Reaction Dynamics and Kinetics II: Numerical Considerations and Applications to Models with Two Degrees of Freedom.” *J. Chem. Phys.* 94 (1991), 8329.
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- De Leon, N. and M. Mehta. "Semiclassical Spectral Quantization: Molecular Energies and Eigenfunctions." *Comp. Phys. Reports*, 8 (1988), 295.
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- Mehta, M. and N. De Leon. "Semiclassical Quantization by Circuit Counting: Application to Sulfur Dioxide." *J. Chem. Phys.* 89 (1988). 882.
- De Leon, N and S.P. Neshyba. "Total Projection Probabilities on Nonorthogonal States: Calculation of Electronic Populations in Molecules." *Chem. Phys. Lett.* 151 (1988), 296.
- Neshyba, S. P. and N. De Leon. "Classical Resonances, Fermi Resonances and Canonical Transformations for Three Non-Linearly coupled Oscillators." *J. Chem. Phys.* 86 (1987), 6295.
- Kwong, D., N. De Leon and G.L. Haller. "Trajectory Study of CO<sub>2</sub> on a Pt(111) Surface." Proceedings of the Conference on Gas-Surface Interactions, at Edinburgh (1987).
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