CURRICULUM VITAE

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Datos Personales

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Fecha de Nacimiento	2 de noviembre de 1967
Nacionalidad	Mexicana
Estado Civil	Casado

Carrera Académica

1993-1997	**Ph.D.**, Doctorado en Física Teórica, Departamento de Física, Universidad Estatal de Pennsylvania, Pennsylvania, USA.
Título de la Tesis	"Interplay between Topology, Gauge Fields and Gravity."
Director de Tesis	Prof. Abhay Ashtekar.
Fecha del Examen	14 de Abril de 1997.
1992-1993	**Estudios de Maestria en Física**, Departamento de Física, Universidad de Syracuse, Nueva York, USA.
1985-1991	**Licenciatura en Física**, Facultad de Ciencias, Universidad Nacional Autónoma de México, México
Título de la Tesis	"Introducción a la Geometrodinámica"
Fecha del Examen	31 de Octubre de 1991. Aprobado con Mención Honorífica.

Experiencia Laboral

2007-2008 **Profesor Visitante**,
Instituto de Gravitacion y el Cosmos,
Universidad Estatal de Pennsylvania, USA

2005- **Investigador Titular B, t. c.**,
Instituto de Matemáticas,
Universidad Nacional Autónoma de México, Morelia, México

2003-2005 **Investigador Titular B, t. c.**,
Instituto de Ciencias Nucleares,
Universidad Nacional Autónoma de México, México

2001-2002 **Research Associate**,
Departamento de Física y Astronomía,
Universidad de Mississippi, USA

1999-2003 **Investigador Titular A, t. c.**,
Instituto de Ciencias Nucleares,
Universidad Nacional Autónoma de México, México

1998-a la fecha **Profesor de Asignatura**,
Departamento de Fisica, Facultad de Ciencias
Universidad Nacional Autonoma de Mexico, Mexico

1997-1999 **Investigador Asociado C, t. c.**,
Instituto de Ciencias Nucleares,
Universidad Nacional Autónoma de México, México

1996 **Ayudante de Profesor**,
Departamento de Física,
Universidad Estatal de Pensylvania, U.S.A.
Laboratorios de licenciatura y curso de posgrado en física.

1989-1991 **Ayudante de Profesor**,
Departamento de Física y Departamento de Matemáticas
Facultad de Ciencias, UNAM, México
Cursos de licenciatura en física y matemáticas

Idiomas

Inglés
Alemán
Italiano

Publicaciones Arbitradas

1. A. Corichi y D. Núñez, "*Introducción al formalismo ADM*", Rev. Mex. de Física, **37**, N^{o}4, (1991), 720-747.

2. A. Corichi, "*Comment on Hamiltonian theory of a system with constraints*", Jour. Math. Phys., **33**, (1992), 4066-4067.

3. A. Corichi and M. Pierri, "*Gravity and Geometric Phases*", Phys. Rev. D**51**, N^{o}10, (1995), 5870-5875.

4. A. Ashtekar and A. Corichi, "*Photon Inner Product and the Gauss Linking Number*", Class. Quantum Grav. **14**, (1997), A43-A53.

5. A. Corichi and M. P. Ryan Jr., "*Quantization of Non-standard Hamiltonian Systems*", J. of Phys. A: Math. Gen. **30**, (1997), 3553-3572.

6. A. Corichi and J.A. Zapata, "*On Diffeomorphism Invariance for Lattice Theories*", Nuclear Physics **B493**, (1997), 475-490.

7. A. Ashtekar and A. Corichi, "*Gauss Linking Number and Electro-magnetic Uncertainty Principle*", Phys. Rev. **D56**, (1997), 2073-2079

8. A. Ashtekar, J. Baez, A. Corichi, and K. Krasnov, "*Quantum Geometry and Black Hole Entropy*", Phys. Rev. Lett. **80**, (1998), 904-907.

9. A. Corichi and K. Krasnov, "*Ambiguities in Loop Quantization: Area vs. Electric Charge*". Mod. Phys. Lett. **A13**, (1998), 1339-1346.

10. A. Corichi, "*Introduction to the Fock Quantization of the Maxwell Field*", Rev. Mex. Fis., **44**(4), (1998), 402-412.

11. A. Ashtekar, A. Corichi, and J.A. Zapata, "*Quantum Theory of Geometry III: Non-commutativity of Riemannian Structures*", Class. Quantum Grav. **15**, (1998), 2955-2972.

12. A. Corichi, "*Edge States and Black Hole Entropy*", Gen. Rel. Grav. **31**, (1999), 615-620.

13. A. Corichi and M.P. Ryan Jr., "*Reflections on the Geometrical Approach to Quantum Mechanics applied to Cosmology*", Gen. Rel. Grav. **31**, (1999), 621-628.

14. A. Ashtekar, A. Corichi and K. Krasnov "*Isolated Horizons: the Classical Phase Space*", Adv. Theor. Math. Phys. **3**, 419-478 (2000), Preprint: gr-qc/9905089

15. A. Corichi and A. Gomberoff "*On a Spacetime duality in* $2+1$ *Gravity*", Class. Quantum Grav **16**, 3579-3598 (1999).

16. A. Corichi, G. Cruz, A.M. Minzoni, P. Padilla, M. Rosenbaum and M.P. Ryan Jr., N.F. Smyth, "*The effect of low momentum quantum fluctuations on a coherent field structure*", Phys. Rev. **D61**, 105011 (2000). Preprint hep-ph/9904289

17. A. Ashtekar and A. Corichi, "*Laws governing Isolated Horizons: Inclusion of Dilaton Couplings*", Class. Quantum Grav. **17**, 1317-1332 (2000). Preprint gr-qc/9910068

18. A. Corichi and D. Sudarsky, "*Mass of Colored Black Holes*", Phys. Rev. **D61**, 101501(R) (2000). Preprint gr-qc/9912032

19. A. Corichi, U. Nucamendi and D. Sudarsky, "*Einstein-Yang-Mills Isolated Horizons: Phase Space, Mechanics, Hair and Conjectures*", Phys. Rev. **D62** 044046 (2000). Preprint: gr-qc/0002078

20. A. Corichi and M. Reyes, "*A Gaussian Weave for Kinematical Loop Quantum Gravity*", Int. Jour. Mod. Phys. **D10**, 325-338 (2001). Preprint: gr-qc/0006067.

21. A. Ashtekar, A. Corichi and D. Sudarsky, "*Hairy Black Holes, Horizon Mass and Solitons*". Class. Quantum Grav. **18**, 919-940 (2001). Preprint gr-qc/0011081.

22. A. Corichi, U. Nucamendi and D. Sudarsky, "*Mass formula for EYM Solitons*". Phys. Rev. **D64**, 107501 (2001). Preprint: gr-qc/0106064.

23. A. Corichi, G. Cruz, A.M. Minzoni, P. Padilla, M. Rosenbaum, M.P. Ryan Jr., N.F. Smyth and T. Vucasinak. "*Quantum Collapse of a Small Dust Shell*", Phys. Rev. **D65**, 0640006 (2002). Preprint gr-qc/0109057.

24. A. Corichi, M.P. Ryan, D. Sudarsky, "*Quantum Geometry as a Relational Construct*", Mod. Phys. Lett. **A17**, 555-567 (2002). Preprint gr-qc/0203072.

25. A. Corichi, J. Cortez, H. Quevedo, "*On Unitary time evolution in Gowdy* T^3 *Cosmologies*", Int. J. Mod. Phys. **D11**, 1451 (2002). Preprint gr-qc/0204053.

26. A. Corichi and D. Sudarsky, "*When is S=A/4?*". Mod. Phys. Lett. **A17**, 1431-1443, (2002). Preprint gr-qc/0010086.

27. A. Corichi, J. Cortez, H. Quevedo, "*Schrödinger Representation for a scalar field on curved spacetime* ", Phys. Rev. **D66**, 085025 (2002). Preprint gr-qc/0207088.

28. A. Corichi, J. Cortez and H. Quevedo, "*Note on canonical quantization and unitary equivalence in field theory*". Class. Quantum Grav. **20**, L83-L93 (2003). arXiv:gr-qc/0212023.

29. A. Corichi, "*Quasinormal modes, black hole entropy, and quantum geometry*". Phys. Rev. **D67**, 087502 (2003). arXiv:gr-qc/0212126.

30. M. Alcubierre, A. Corichi, J.A. Gonzalez, D. Nuñez, M. Salgado, "*Hyperbolicity of the KST formulation of Einstein's equations coupled to a modified Bona-Masso slicing condition*", Phys. Rev. **D67**, 104021 (2003). Preprint gr-qc/0303086.

31. A. Ashtekar, A. Corichi and D. Sudarsky "*Non-minimally coupled scalar fields and isolated horizons*". Class. Quantum Grav. **20**, 3413-3425 (2003). arXiv: gr-qc/0305044.

32. M. Alcubierre, A. Corichi, J.A. Gonzalez, D. Nuñez, M. Salgado, "*A hyperbolic slicing condition adapted to Killing fields and densitized lapses*", Class. Quantum Grav. **20**, 3629-3646 (2003). Preprint gr-qc/0303069.

33. A. Ashtekar and A. Corichi, "*Non-minimal couplings, quantum geometry and black hole entropy*". Class. Quantum Grav. **20**, 4151-4162 (2003). arXiv: gr-qc/0305082.

34. A. Corichi and A. Gomberoff, "*Black Holes in de Sitter Space: Masses, Energies and Entropy Bounds*", Phys. Rev. **D69**, 064016 (2004). Preprint hep-th/0311030.

35. A. Corichi and J. Cortez, "*Note on Self-duality and the Kodama State*", Phys. Rev. **D69**, 047702 (2004). Preprint hep-th/0311089.

36. B. Bolen, L. Bombelli, A. Corichi, "*Semiclassical States in Quantum Cosmology: Bianchi I Coherent States*", Class. Quantum Grav. **21**, 4087 (2004). arXiv: gr-qc/0404004.

37. A. Corichi, J. Cortez, H. Quevedo, "*Fock and Schrodinger Representations for field theory on Curved Spacetime* ". Annals of Physics (NY) **313**, 446-478 (2004). Preprint hep-th/0202070.

38. A. Corichi, "*Comments on area spectra in Loop Quantum Gravity*". Rev. Mex. Fis. **50**, 549-552 (2004). arXiv:gr-qc/0402064.

39. L. Bombelli, A. Corichi and O. Winkler, "*Semiclassical Quantum Gravity: Statistics of Combinatorial Riemannian Geometries*". Annalen der Physik **14**, 499-519 (2005). ArXiv: gr-qc/0409006.

40. A. Ashtekar, L. Bombelli and A. Corichi, "*Semi-classical states for constrained systems*", Phys. Rev. **D72** 0205008 (2005). ArXiv:gr-qc/0504052.

41. I. Pena, C. Chryssomalakos, A. Corichi and D. Sudarsky, "*On a puzzle about bremsstrahlung as described by coaccelerated observers*", Phys. Rev. **D72** 084018 (2005). arXiv:gr-qc/0507040.

42. A. Corichi and D. Sudarsky, "*Towards a new approach to quantum gravity phenomenology*", Int. J. Mod. Phys. **D14**, 1685-1698 (2005). ArXiv:gr-qc/0503078.

43. M. Alcubierre, A. Corichi, J. A. Gonzalez, D. Nunez, B. Reimann and M. Salgado, "*Generalized harmonic spatial coordinates and hyperbolic shift conditions*", Phys. Rev. **D72**, 124018 (2005). arXiv:gr-qc/0507007.

44. A. Corichi, J. Cortez and G. Mena Marugan, "*Unitary evolution in Gowdy cosmology*", Phys. Rev. **D73**, 041502(R) (2006). ArXiv:gr-qc/0510109.

45. A. Corichi, "*Quantum Superposition Principle and Geometry*". Gen. Rel. Grav. **38**, 677-687 (2006). arXiv: quant-ph/0407242.

46. A. Corichi, U. Nucamendi and M. Salgado, "*Scalar hairy black holes and scalarons in the isolated horizons formalism*", Phys. Rev. **D73**, 084002 (2006). ArXiv:gr-qc/0504126.

47. A. Corichi, J. Cortez and G. Mena Marugan, "*Quantum Gowdy T^3 cosmology: A unitary description*", Phys. Rev. **D73**, 084020 (2006). ArXiv:gr-qc/0603006.

48. A. Corichi, J. Cortez, G. Mena Marugan and J. Velhinho, "*Quantum Gowdy T^3 cosmology: A uniqueness result*", Class. Quantum Grav. **23**, 6301-6319 (2006). ArXiv:gr-qc/0607136.

49. A. Corichi, J. Diaz-Polo and E. Fernandez-Borja, "*Quantum Geometry and microscopic black hole entropy*", Class. Quantum Grav. **24**, 243-251 (2007). ArXiv:gr-qc/0605014.

50. A. Corichi, T. Vukasinac and J.A. Zapata. "*Hamiltonian and physical Hilbert space in polymer quantum mechanics*", Class. Quantum Grav. **24**, 1495-1511 (2007). arXiv:gr-qc/0610072.

51. A. Corichi, J. Diaz-Polo and E. Fernandez-Borja, "*Black hole entropy quantization*", Phys. Rev. Lett. **98**, 181301 (2007). arXiv:gr-qc/0609122.

52. A. Corichi, T. Vukasinac and J.A. Zapata. "*Polymer quantum mechanics and its continuum limit*", Phys. Rev. **D76**, 044016 (2007). arXiv:0704.0007v1 [gr-qc].

53. A. Corichi, J. Cortez, G. Mena Marugan and J. Velhinho, "*Quantum Gowdy T^3 Cosmology: Schroedinger Representation with Unitary Dynamics*", Phys. Rev. **D76** 124031 (2007). arXiv:0710.0277v2 [gr-qc].

54. A. Ashtekar, A. Corichi and P. Singh, "*Robustness of key features of loop quantum cosmology*", Phys. Rev. **D77**, 024046 (2008). arXiv:0710.3565v3 [gr-qc].

55. A. Corichi and P. Singh, "*Quantum bounce and cosmic recall*", Phys. Rev. Lett. **100**, 161302 (2008). arXiv:0710.4543v1 [gr-qc].

56. A. Corichi and J.A. Zapata, "*Quantum Structure of Geometry: Loopy and Fuzzy?*", Int. Jour. Mod. Phys. **D17**, 445-451 (2008). arXiv:0705.2440v1 [gr-qc].

57. A. Corichi, "*On the geometry of quantum constrained systems*", Class. Quantum Gravity **25**, 135013 (2008). arXiv:0801.1119v1 [gr-qc].

58. A. Corichi and P. Singh, "*Is loop quantization in cosmology unique?*", Phys. Rev. **D 78**, 024034 (2008). arXiv:0805.0136v1 [gr-qc].

Publicaciones en Memorias y Libros

59. A. Ashtekar, A. Corichi, and M. Pierri, "*Geometry in Color Perception*", en 'Black holes, Gravitational Radiation and the Universe', B. Bhawal and B.R. Iyer eds. Kluwer, Dordrecht (1998), 535-549.

60. A. Corichi, and M. Reyes, "*A Gaussian weave for loop quantum gravity*", en 'Memorias del III Taller Mexicano de Gravitacion, Leon Gto, Mexico, Diciembre de 1999: "Aspectos de Gravitacion y Fisica matematica", N. Breton, S. Garcia, O. Pimentel eds. Universidad de Guanajuato (2000).

61. A. Corichi and D. Sudarsky, "*Hair from the Isolated Horizon Perspective*", en Proceedings of the 9th Marcel Grossmann Meeting, Rome, Italy, july 2000, R. Jantzen ed. Pp 1540-43. Preprint gr-qc/0011084

62. A. Corichi and M. Reyes, "*Gaussian Weaves: New Results*", en Proceedings of the 9th Marcel Grossmann Meeting, Rome, Italy, july 2000, R. Jantzen ed. Pp 1275-76.

63. A. Corichi, J. Cortez and H. Quevedo, "*On Time Evolution in Gowdy T^3 Models*", en Proceedings del IV Taller de Gravitacion y Fisica Matematica, Chapala, Mexico. Rev. Mex. Fis., **49, S2**, 106-110 (2003).

64. A. Corichi, "*Loop quantum geometry: A primer*", J. Phys.: Conf. Ser. **24**, 1-22 (2005). (Proceedings of the VI Mexican School on Gravitation and Mathematical Physics.) arXiv:gr-qc/0507038.

65. A. Corichi, J. Cortez and G. Mena Marugan, "*Unitary Quantization of the Gowdy T^3 Cosmology*", en Proceedings del 11th Marcel Grossmann Meeting, Berlin, 2006.

66. A. Corichi, J. Diaz-Polo and E. Fernandez-Borja, "*Loop quantum gravity and Planck-size black hole entropy*", J. Phys.: Conf. Serv. **68** 012031 (2007). (Proceedings of the NEB XII International Conference.) arXiv:gr-qc/0703116.

67. A. Corichi, T. Vukasinac and J.A. Zapata. "*On a continuum limit for loop quantum cosmology*", AIP Conf. Proc. **977**, 64 (2008) (Recent Developments in Gravitation and Cosmology: 3rd Mexican Meeting on Mathematical and Experimental Physics). arXiv:0711.0788v1 [gr-qc].

68. A. Corichi, "*Black holes in loop quantum gravity: Recent results*", Proceedings of ICGC'07, the 6th International Conference on Gravitation and Cosmology, Dec 2007, Pune, India.

Ensayos

1. A. Corichi, M.P. Ryan, D. Sudarsky, "*Patching Together a Quantum Space-time*", ensayo enviado al *Gravity Research Foundation awards for essays on gravitation, 1999.*

Reseñas

1. Reseña del artículo: Kim, S.P. "*Semiclassical Quantization of Matter Fields in Gravity*", en: Mathematical Reviews **99c:83030**

2. Reseña del artículo: Visser, M. "*The reliability horizon for semi-classical quantum gravity: metric fluctuations are often more important than back-reaction*", en: Mathematical Reviews **99c:83035**

3. Reseña del artículo: Mostafazadeh, A. "*Exact semiclassical evolution in relativistic and non-relativistic scalar quantum mechanics and quantum cosmology*", en: Mathematical Reviews **99d:83047**

4. Reseña del artículo: Acacio de Barros, J., Pinto-Neto, N., "*The causal interpretation of quantum mechanics and the singularity problem and time issue in quantum cosmology*", en: Mathematical Reviews **99d:83043**

5. Reseña del artículo: Horiguchi, T. "*Gravitational constant, cosmological constant and phases of quantum gravity based on the Wheeler-De Witt equation*", en: Mathematical Reviews **99g:83034**

6. Reseña de eventos: Corichi, A "*3 Conferences for 30 years of Gravity at UNAM*", en: Matters of Gravity **23**, 17-18, Spring 2004.

7. Reseña de eventos: Corichi, A "*VI Mexican School*", en: Matters of Gravity **25**, 12-13, Spring 2005.

Conferencias como Asistente

9th Marcel Grossmann Meeting in General Relativity
Julio del 2000,
Roma, Italia.

Hartle Fest
Febrero 1999,
KITP, UCSB, Santa Barbara, USA.

III Mexican School: Black Holes, Classical and Quantum
Noviembre 1998,
Mazatlán, Sinaloa, México.

Spinoza Meeting on the Quantum Black Hole
Julio 1998, Universidad de Utrecht
Utrecht, Holanda.

Introductory School on String Theory
Junio 1998, Centro Internacional de Fisica Teorica
Trieste, Italia.

2nd Annual Penn State Meeting
"Quantum Geometry"
Agosto 1994, Universidad Estatal de Pennsylvania
University Park, Pennsylvania, USA.

VII Marcel Grossmann Meeting
Julio 1994, Universidad de Stanford
Palo Alto, California, USA.

PASCOS 94
1993, Universidad de Syracuse
Syracuse, Nueva York, USA.

Aspects of General Relativity and Mathematical Physics
en Honor al Prof. Plebansky
Junio 1993, CINVESTAV, Mexico

Directions in General Relativity
en Honor a los Profs. Brill y Misner
Mayo 1993, Universidad de Maryland
College Park, Maryland, USA.

SILARG VII
Cocoyoc, Mexico, 1990.

Conferencias, Seminarios y Charlas

Seminario de Relatividad *Geometric Phases in Gravity*
Marzo 1994, Departamento de Física, Universidad Estatal de Pensylvania
University Park, Pensylvania, USA.

8^{va} Reunión Anual de la División de Partículas y Campos, SMF
Papel de la Topología en el Campo Cuántico de Maxwell,
Junio 1994, Universidad Autónoma Metropolitana, Iztapalapa, México.

2^{da} Reunion Anual de la División de Gravitación y Fisica Matemática, SMF
Gravedad y Fases Geométricas
Julio 1994, Centro de Investigación y Estudios Avanzados, IPN,
México D.F., México.

Seminario de Relatividad
Principio de Incertidumbre para el Campo de Maxwell
Agosto 1994, Universidad Autónoma Metropolitana, Iztapalapa,
México.

Seminario de Relatividad *Holomorphic Quantization of 2+1 Gravity on* T^2
Abril 1995, Departamento de Física, Universidad Estatal de Pensylvania
University Park, Pensylvania, USA.

3^{ra} Reunion Anual de la DGFM, SMF
Cuantización de Sistemas Hamiltonianos no Standard?

Abril 1995, Universidad Nacional Autónoma de México,
México D.F., México.

Seminario de Relatividad
Cuantización Holomorfa de Gravedad en 2+1 dimensiones sobre el Toro
Mayo 1995, Universidad Autonoma Metropolitana, Iztapalapa,
México.

Seminario del Departamento de Gravitación y Teoria de Campos
Holomorphic Quantization of 2+1 Gravity with $\Lambda \neq 0$ *on* T^2
Mayo 1995, Instituto de Ciencias Nucleares, UNAM,
México.

Seminario de Relatividad
Invariancia ante Difeomorfismos en Teorías de Norma sobre la Red
Agosto 1996, Universidad Autonoma Metropolitana, Iztapalapa,
México.

Seminario del Departamento de Gravitación y Teoria de Campos
Novedades en Geometría Cuántica
Agosto 1996, Instituto de Ciencias Nucleares, UNAM,
México.

Seminario de Relatividad
Origin of Non-commutativity in Quantum Geometry
Octubre 1996, Syracuse University, Syracuse, Nueva York
USA.

4^{th} Annual Penn State Meeting: New Voices in Relativity and Quantum Gravity
Origin of Unexpected Non-commutativity in Quantum Geometry
Noviembre 1996, Penn State University, Pensylvania,
USA.

Seminario de Relatividad *Quantizing 2+1 Gravity with* $\Lambda \neq 0$
Febrero 1997, Departamento de Física, Universidad Estatal de Pensylvania
University Park, Pensylvania, USA.

Seminario del Departamento de Gravitación y Teoría de Campos
Sorpresas en la Cuantización de Teorías de Norma
Junio 1997, Instituto de Ciencias Nucleares, UNAM,
México.

11^{ra} Reunion Anual de la DPC, SMF
Cuantización de Lazo de la Teoría de Maxwell y Carga Eléctrica
Junio 1997, Universidad Nacional Autónoma de México,

México D.F., México.

Seminario del Departamento de Física
Mecánica Cuántica de la Geometría del Espacio
Junio 1997, Universidad Autonoma Metropolitana, Iztapalapa, México.

Plática Invitada, Mexican Meeting on Gauge Theories of Gravity
Edge States in The Gauge Formulation of $2+1$ *Gravity*
Octubre 1997, Universidad Autonoma Metropolitana, Iztapalapa, México.

Plática Invitada, II Taller de Gravitación y Física Matemática
Gravedad Cuántica: ¿Porqué y para que?
Diciembre 1997, Universidad Veracruzana, Jalapa, México.

Seminario de Relatividad
Loop Quantum Gravity: What are we quantizing?
Junio 1998, Instituto de Física Teórica, Universidad de Viena, Austria.

Plática Plenaria, Escuela Latinoamericana de Física 98
Quantum Mechanics is Geometry too
Agosto 1998, El Colegio Nacional, México D.F., México.

Seminario del Departamento de Gravitación y Teoria de Campos
La Mecánica Cuántica también es Geometría
Septiembre 1998, Instituto de Ciencias Nucleares, UNAM, México.

Conferencia del Ciclo de Conferencias de Otoño, FENOMEC
Evaporación de Hoyos Negros y la Paradoja de la Informacion
Noviembre 1998, Facultad de Ciencias, UNAM, México.

Pacific Coast Gravity Meeting
Some new insights from $2+1$ *gravity*
Febrero 1999, Departamento de Física, Universidad de California en Santa Barbara U.S.A.

VII Reunion Anual de la DGFM, SMF
Wick rotation without Wick rotation: ejemplos

Abril 1999, Instituto Nacional de Investigaciones Nucleares,
México D.F., México.

Seminario del Departamento de Gravitación y Teoria de Campos
Wick rotation without Wick rotation
Febrero 2000, Instituto de Ciencias Nucleares, UNAM,
México.

VIII Reunion Anual de la DGFM, SMF. Platica Invitada
¿Que es eso de Horizontes Aislados?
Abril 2000, Universidad Autonoma Metropolitana - Iztapalapa,
México D.F., México.

9th Marcel Grossmann Meeting
Gaussian Weave in Loop Quantum Gravity
Julio 2000, Universidad de Roma 'La Sapienza',
Roma, Italia.

9th Marcel Grossmann Meeting
Isolated Horizons for Theories with Hair
Julio 2000, Universidad de Roma 'La Sapienza',
Roma, Italia.

Coloquio del Instituto de Matematicas
Escala de Planck: Geometria Cuantica y No-conmutativa
Diciembre de 2000, Instituto de Matematicas, UNAM, Unidad Morelia,
México.

Seminario del Departamento de Gravitación y Teoria de Campos
Hacia una una fenomenologia de hoyos negros peludos
Enero 2001, Instituto de Ciencias Nucleares, UNAM,
México.

Coloquio de Relatividad y Fisica Matematica
Hoyos Negros Peludos, Solitones y otras Bestias
Febrero 2001, Departamento de Fisica, CINVESTAV, IPN,
México.

IX Reunion Anual de la DGFM, SMF. Platica Invitada
Is Quantum Geometry Point-less?
Mayo 2001, CINVESTAV,
México D.F., México.

Seminario Sandoval Vallarta
Geometria Cuantica a la Escala de Planck

Mayo 2001, Instituto de Fisica, UNAM,
México.

Seminario de Relatividad
Isolated horizons and some hairy applications
Noviembre 2001, Perimeter Institute for Theoretical Physics,
Waterloo, Canada.

Coloquio del Departamento de Fisica
Hairy Black Holes, Solitons and other Beasts
Agosto 2002, Department of Physics and Astronomy,
U. of Mississippi, USA.

Platica Invitada, Aspects of General Relativity and Mathematical Physics
en Honor al Prof. Plebanski
On Unitary evolution in Quantum Cosmology
Septiembre 2002, CINVESTAV, Mexico

Seminario de Fisica Teorica
Hairy Black Holes, Solitons and other Beasts
Marzo 2003, Centro de Estudios Cientificos del Sur,
Valdivia, Chile.

Seminario del Departamento de Gravitación y Teoria de Campos
¿Que onda con los modos cuasinormales y la gravedad cuantica?
Mayo 2003, Instituto de Ciencias Nucleares, UNAM,
México.

Gravitation: A Decennial Perspective
Horizon Mass for de Sitter Black Holes
Junio 2003, Penn State University, Pennsylvania,
USA.

Gravitation: A Decennial Perspective
When is Quantum Gravity Unitary?
Junio 2003, Penn State University, Pennsylvania,
USA.

Seminario del Departamento de Gravitación y Teoria de Campos
¿Se puede definir una masa para de Sitter?
Agosto 2003, Instituto de Ciencias Nucleares, UNAM,
México.

Platica Invitada, XXXVI Congreso Nacional de la SMM.
Introducción a la Geometría Cuántica basada en Lazos

Octubre 2003, U. Aut. del Estado de Hidalgo,
Pachuca, Mexico.

Platica Invitada, CECS Summer Meeting on Theoretical Physics.
Black Holes in Loop Quantum Gravity
Enero 2004, Centro de Estudios Cientificos,
Valdivia, Chile.

Platica Invitada, Conferencias en Honor a M. Rosenbaum.
Self-duality, QFT and Link Invariants
Febrero 2004, UNAM,
Mexico.

Seminario de Relatividad
Hoyos negros en LQG: any news?
Marzo 2004, Universidad Autonoma Metropolitana, Iztapalapa,
México.

Seminario del Departamento de Fisica Teorica
Agujeros Negros en Gravedad Cuantica de Lazos
Abril 2004, Instituto de Estructura de la Materia, CSIC
Madrid, España.

Platica Plenaria, Nonperturbative Quantum Gravity: Loops and Spin Foams.
Black Holes in Loop Quantum Gravity
Mayo 2004, CIRM, Luminy,
Marseille, Francia.

Seminario del Departamento de Gravitación y Teoria de Campos
QFT, Autodualidad y el Estado de Kodama
Julio 2004, Instituto de Ciencias Nucleares, UNAM,
México.

Seminario del Instituto de Fisica y Matematicas
QFT, Autodualidad y el Estado de Kodama
Julio 2004, Instituto de Fisica y Matematicas, U. Michoacana,
México.

Seminario del Departamento de Gravitación y Teoria de Campos
Hoyos Negros en Gravedad Cuantica de Lazos
Octubre 2004, Instituto de Ciencias Nucleares, UNAM,
México.

Seminario Sandoval Vallarta
Gravedad Cuantica de Lazos y Agujeros Negros

Octubre 2004, Instituto de Fisica, UNAM, México.

Platica Invitada, Workshop on Quantum Gravity in the Americas: Status and future directions.
Some Issues in semiclassical LQG
Octubre 2004, Perimeter Institute,
Waterloo, Canada.

Platica Plenaria, VI Mexican School on Gravity and Mathematical Physics: Approaches to Quantum Gravity
Black Holes in Loop Quantum Gravity
Noviembre 2004, Playa del Carmen
Mexico.

Curso (1/3), VI Mexican School on Gravity and Mathematical Physics: Approaches to Quantum Gravity
Quantum Geometry I: the basics
Noviembre 2004, Playa del Carmen
Mexico.

Seminario de relatividad
Semiclassical states and statistical geometry in LQG
Enero 2005, Instituto de Fisica Gravitacional y Geometria
U. Estatal de Pennsylvania, USA.

Coloquio, Coloquios del Posgrado en Ciencias Fisicas
Gravedad Cuantica
Marzo 2005, ICN-UNAM
Mexico.

Platica Invitada, 2005 Año Internacional de la Fisica
A 100 años de la Relatividad: ¿Que sabemos del espacio-tiempo?
Mayo 2005, Museo de Ciencia Universum, UNAM
Mexico.

Platica Invitada, Año Mundial de la Fisica
A 100 años de la Relatividad: ¿Que sabemos del espacio-tiempo?
Junio 2005, Universidad Autonoma Metropolitana, Iztapalapa
Mexico.

Mesa Redonda, 2005 Año Internacional de la Fisica
Relatividad: Presente y Futuro
Junio 2005, Facultad de Ciencias, UNAM
Mexico.

Coloquio del Instituto de Matematicas
Aspectos de la representación de Schroedinger en teoria de campos
Septiembre de 2005, Instituto de Matematicas, UNAM, Unidad Morelia, México.

Platica Plenaria, Loops'05
Semiclassical States and Constrained Systems
Octubre 2005, Albert Einstein Institute,
Golm, Alemania.

Platica Invitada, Sociedad Astronomica de la Fac. Ciencias
A 100 años de la Relatividad: ¿Que sabemos del espacio-tiempo?
Octubre 2005, Facultad de Ciencias, UNAM
Mexico.

Platica Invitada, 2005 Año Internacional de la Fisica
¿Que es el espacio?
Noviembre 2005, Feria de la Fisica, Palacio de Mineria
Mexico.

Seminario de Grupo de relatividad
Quantum Cosmology of the Gowdy model
Noviembre 2005, Departamento de Fisica, U. Mississippi
USA.

Platica Plenaria, II Meeting on the interface of gravitational and quantum realms
Loop quantum geometry: non-commutative, fuzzy or what?
Diciembre 2005, COZCyT, Zacatecas,
México

Seminario del Departamento de Gravitación y Teoria de Campos
Crackpot Physics I: Mecanica Cuantica
Junio 2006, Instituto de Ciencias Nucleares, UNAM,
México.

Curso (1/2), Seminario Especial del Departamento de Astrofisica:
Gravedad Cuantica de Lazos I: Introduccion
Junio 2006, Universidad de Valencia,
España.

Curso (2/2), Seminario Especial del Departamento de Astrofisica:
Gravedad Cuantica de Lazos II: Aplicaciones
Junio 2006, Universidad de Valencia,
España.

Platica Plenaria, Recent developments in Gravity (NEBXII)
Microscopic back holes in loop quantum gravity.
Julio 2006, Naplio, Grecia.

Quantum Gravity in the Americas III
A new approach to quantum gravity phenomenology.
Agosto 2006, Penn State U, USA.

Mesa Redonda, Quantum Gravity in the Americas III
Back hole counting in loop quantum gravity.
Agosto 2006, Penn State U, USA.

Platica Plenaria, 1st Meeting on Matter in Quantum Gravity
LQG: Loopy geometry and, what is the matter?
Noviembre 2006, Patzcuaro, Mexico.

International Loop Quantum Gravity Seminar
Quantum Isolated Horizons: the Planck Scale Regime.
Noviembre 2006, IMUNAM, Mexico

Gravity Seminar, IGPG
Just how fine *is LQC?*
Marzo 2007, Penn State U., USA

International Loop Quantum Gravity Seminar
Relation Between Schroedinger and Polymer Quantum Mechanics.
Marzo 2007, Penn State U, USA

Gravity Seminar, IGC
The quantum bounce in LQC: Past and future
Septiembre 2007, Penn State U., USA

Seminario del Instituto de Fisica y Matematicas
El Big bang en la cosmologia cuantica de lazos
Septiembre 2007, Instituto de Fisica y Matematicas, U. Michoacana, México.

Platica Invitada, Relativity: Classical and Quantum
Is miniuperspace quantization justified?
Diciembre 2007, ICN-UNAM, México.

Conferencia Plenaria, ICGC07, Int. Conference on Gravitacion and Cosmology
Black Holes in Loop Quantum Gravity
Diciembre 2007, IUCAA, Pune, India.

Otras Actividades Academicas

2008- **Miembro del "Scientific Organizing Committee"**,
GRG19, 19th International Conference on General
Relativity and Gravitation.
Mexico D.F., Mexico, Julio 2010

2007- **Miembro del "Local Organizing Committee"**,
GRG19, 19th International Conference on General
Relativity and Gravitation.
Mexico D.F., Mexico, Julio 2010

2007 **Miembro del "Organizing Committee"**,
Loops'07
Conferencia Internacional.
Morelia, Mexico, Junio 2007

2006 **Miembro del "Scientific Committee"**,
Quantum Gravity in the Americas III
Conferencia Internacional.
Instituto de Fisica Gravitacional y Geometria,
Penn State, USA, Agosto 2006

2005 **Miembro del "International Scientific Committee"**,
Loops'05
Conferencia Internacional.
Instituto Max Planck para Fisica Gravitacional,
Golm, Alemania, Octubre 2005

2004 **Miembro del Comité Organizador**,
Homenaje al Dr. Marcos Rosenbaum
Taller Cientifico
México D.F., México, Febrero 2004

2004 **Miembro del Comité Organizador**,
30 de Años de Gravitación en la UNAM: Homenaje a Mike Ryan
Conferencia Cientifica
México D.F., México, Febrero 2004

2004 **Presidente del Comité Organizador**,

Frontiers in Loop Quantum Gravity
Workshop avanzado
México D.F., México, Enero 2004

1999 **Miembro del Comité Editorial**,
Proceedings of the III Mexican School on Gravitation:
Black Holes: Classical and Quantum
Mazatlán, México, Noviembre 1998

1999 **Miembro del Comité Organizador**,
III Taller de Gravitación y Física Matemática.
León, México, Diciembre de 1999

1998 **Miembro del Comité Organizador**,
III Escuela Mexicana de Gravitación y Física Matemática:
Hoyos Negros, Clásicos y Cuánticos
Mazatlán, México, Noviembre 1998

1998 **Miembro del Comité Organizador**,
Ciclo de Conferencias de Otoño: Física y Geometría
FENOMEC, Facultad de Ciencias,
Mexico, Noviembre 1998

1998 **Miembro del Comité Organizador**,
VI Reunion Anual, DGFM-SMF, Mexico D.F., Abril 1998

1998-2001 **Comité Organizador**,
Seminario Departamental,
Departamento de Gravitación y Teoría de Campos
ICN-UNAM, Enero 1998 a Septiembre 2001

1998- **Reviewer para** *Mathematical Reviews*,

1997-1998 **Curso Avanzado de Gravedad Cuántica No Perturbativa**,
ICN, UNAM.

1997- **Referee para las Revistas:** *Physical Review Letters*,
Classical and Quantum Gravity, Int. Jour. Mod. Phys. **D**,
Physical Review **D**, *Gen. Rel. Grav.*,
Mod. Phys. Lett. **A** *y la Rev. Mex. de Física*

1997-1998 **Curso Avanzado de Gravedad Cuántica No Perturbativa**,
ICN, UNAM.

2000- **Arbitro de Proyectos Cientificos para las agencias:**

CONACyT (Mexico), *CONICET (Chile)* y
FOM (Holanda)

1997 **Curso de Otoño de FENOMEC: Geometría y Física**
Geometría Cuántica y Hoyos Negros
Noviembre 3-7 1997, Facultad de Ciencias, UNAM.

1997 **Recopilacion Bibliografica**
Reportado en: "Bibliography of publications related to classical and quantum gravity in terms of connections and loop variables", By C. Beetle and A. Corichi. E-print gr-qc/9703044.

2005 **Recopilacion Bibliografica**
Reportado en: "Bibliography of publications related to classical selfdual variables and loop quantum gravity",
By A. Corichi and A. Hauser. E-print gr-qc/0509039.

2005- **Serie de Television, "El Nuevo Universo"**
Participacion en la planeacion de la Serie,
Co-Guinista y Co-Asesor Cientifico.
Serie Coproducida por Ad-Astra y TV-UNAM.

2007- **Entrevistas en Radio y TV**,
a) "Semblanzas de la Ciencia", 25-06-07, Radio Michoacana,
b) "Capsula de Ciencia", 25-06-07, Television Michoacana,
c) Entrevista con Motivo del Premio "Bachiller Alvaro Galvez y Fuentes", 10-12-07, Canal 22.
d) Revista "Irradia", 9-06-08, Radio Mexiquense,
e) "Antena Radio Primera Edicion", 17-06-08, IMER.

2004- **Entrevistas en Medios Impresos**,
a) "Conferencias en honor del academico Michael Ryan", Laura Romero, 19-02-04, Gaceta-UNAM.
b) "Albert Einstein revoluciono la vision del espacio y el tiempo", Laura Romero, 19-05-05, Gaceta-UNAM.
c) "Gravitacion cuantica, LOOPS07", Viridiana Lopez, 25-06-07, El Cambio de Michoacan.

2004- **Articulos Periodisticos Mencionando mi Trabajo**,
1) "Before the Big Bang: A Twin Universe?", Lisa Zyga, PhysOrg, 09-04-08, (www.physorg.com/news126955971.html)
2) "Did pre-big bang universe leave its mark on the sky?", Stephen Battersby, New Scientist, 10-04-08.
3) "Are We a Duplicate Universe of the One Prior to the Big Bang?" Josh S. Hill, 11-04-08. www.dailygalaxy.com

4) "What was Before the Big Bang? An Identical, Reversed Universe", Ian O'Neill, Universe Today, 14-04-08.
5) "Nuestro Universo pudo haberse formado de otro Universo especular anterior", Yaiza Martinez, Tendencias Cientificas, 13-04-08.
6) "La memoria del Universo", NeoFronteras, 17-04-08. http://neofronteras.com/?p=1150.
7) "El gran reboton, o como mirar mas alla del big bang", Sergio de Regules (Imagen en la Ciencia), 08-05-08.
8) "Analizan nuevas teorias del origen del Universo", Ained Ayala, Periodico Provincia, 11-05-08.
9) "Estudian que ocurrio antes del Big Bang", Cecilia Rosen, Diario Reforma, 27-05-08.
10) "Contraponen a Big Bang teoria de 'robote cuantico'", Cecilia Rosen, El Norte, 27-05-08.
11) "Cuestionan teoria: el Big Bang no fue el inicio de tiempo y espacio" Laura Romero, 05-06-08, Gaceta-UNAM;
"Posible, que el Big Bang no fuese el Inicio del tiempo y el espacio", Laura Romero, 04-06-08, Boletin UNAM-DGCS-351.
12) Boletin de Notimex que fue tomado en:
El Universal: "Preven que colaboracin de mexicano cambie teoria del big bang"
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El Mexicano: "Cientifico de la UNAM echa abajo teoria sobre origen del universo". ETC.
13) "Mexicano podria cambiar teoria del big bang", Ana Maria Longi Unomasuno, 05-06-08.
14) "Antes del *big bang* ocurrio un 'rebote cosmico', segun estudio", La Jornada, 05-06-08.
15) "Posible que el Big Bang no fuera el inicio", La Jornada Ciencias 06-06-08.
16) "Atrevimiento", Javier Flores, La Jornada, 10-06-08.
17) "Mexicano sacude la gran Teoria: Se reescribira la historia del Bin Bang?",Tenoch-Blog, 05-06-08.
18) "Que paso antes del origen del universo?", S. Almaraz,

Ciencia Hoy, 09-06-08.
19) "Brilla ciencia pese a todo", Patricia Lopez y Cecilia Rosen, Reforma y El Norte, 26-06-08.
20) "El origen del Universo: Ayer y Hoy", Joel N Jimenez y Sergio Almaraz, La Jornada Ciencias, 30-06-08.
21) "The universe before ours", Robert Matthews, BBC Focus No.193, Agosto 2008.

Distinciones

1988-1991	**Becario de Licenciatura**, DGAPA, Universidad Nacional Autónoma de México, México.
1991	**Medalla Gabino Barreda**, Universidad Nacional Autónoma de México, México.
1991	**Beca Bruno Gonzalez**, Sociedad Mexicana de Física - CERN.
1991-1992	**Ayudante de Investigador**, Sistema Nacional de Investigadores, México.
1992-1997	**Becario de Doctorado**, DGAPA, Universidad Nacional Autónoma de México, México.
1994	**Collegiate Scholastic All American**, United States Achievement Academy, USA.
1995-1998	**Candidato a Investigador Nacional**, Sistema Nacional de Investigadores, México.
1997	**Proyecto de Investigacion Inicial**, Consejo Nacional de Ciencia y Tecnologia, México.
1998-2001	**Nivel "C" del PRIDE**, Universidad Nacional Autónoma de México, México.
1998-2004	**Investigador Nacional I**, Sistema Nacional de Investigadores, México.
1999	**Proyecto de Investigacion**, Modalidad de Jovenes Investigadores, Consejo Nacional de Ciencia y Tecnologia, México.

2000 **Miembro Regular**,
Academia Mexicana de Ciencias, México.

2001- **Nivel "D" del PRIDE**,
Universidad Nacional Autónoma de México, México.

2001 **Who'sWho in Science and Engineering**,
6a Edición 2001-2002. Marquis Publishing

2001 **Candidato del ICN-UNAM**,
Premio de Investigacion de la AMC.

2002 **Candidato del ICN-UNAM**,
Distincion Universidad Nacional a Jovenes Investigadores.

2003 **Who'sWho in the World**,
21a Edición 2004. Marquis Publishing

2003 **Candidato del ICN-UNAM**,
Premio de Investigacion de la AMC.

2004 **Candidato del ICN-UNAM**,
Distincion Universidad Nacional a Jovenes Investigadores.

2004- **Investigador Nacional II**,
Sistema Nacional de Investigadores, México.

2005 **Proyecto de Investigacion**,
Modalidad de Proyecto de Grupo,
Consejo Nacional de Ciencia y Tecnologia, México.

2005 **Candidato del ICN-UNAM**,
Premio de Investigacion de la AMC.

2006 **Estancia de Verano para Investigadores Jovenes**,
Programa AMC-FUMEC, en la U. Estatal de Pennsylvania.

2007 **Candidato del IM-UNAM**,
Distincion Universidad Nacional a Jovenes Investigadores.

2007 **Gran Premio Bachiller Alvaro Galvez y Fuentes**,
Muestra Iberoamericana 2007 de Television y Video Educativo,
Cientifico y Cultural, a "El Misterio de la Electricidad" de
la serie "El Nuevo Universo".

Docencia y Formación de Recursos Humanos

1997- **Pláticas de Divulgación.**
1). *Gravedad Cuantica: ¿Por que y para que?*
Día de Puertas Abiertas, ICN-UNAM, México D.F., Febrero 2001
2). *Hoyos Negros: un laboratorio para la física teórica*
Día de Puertas Abiertas, ICN-UNAM, México D.F., Septiembre 1998
3). *Física a la Escala Más Alta de Energías: Gravedad Cuantica*
Día de Puertas Abiertas, ICN-UNAM, México D.F., Noviembre 1997

1998 **Conferencia de Divulgación.** *El Universo Inflacionario*
Dentro del curso:"Cosmología",
Programa *Jovenes hacia la Investigación*, CCH-Naucalpan, Mayo 1998

1998- **Asesor de Tesis**
Asesoramiento, a partir de Febrero de 1998, del trabajo doctoral
del M. en C. Manuel Reyes.
Título de la tesis: *Operadores Geométricos en Gravedad Cuantica*,
con un 90% de avance.
Departamento de Física, CINVESTAV, Mexico

2000- **Asesor de Servicio Social y Tesis**
Asesoramiento, a partir de Febrero de 2000,
del Servicio Social (ya completado)
y a partir de febrero de 2001 de la Tesis de Licenciatura
del Sr. Alejandro Gonzalez Samaniego.
Título de la tesis: *Introduccion a la termodinamica*
de agujeros negros, con un 100% de avance.
Fecha de Titulacion: 4 Julio de 2003.
Facultad de Ciencias, UNAM, Mexico

2000-2003 **Co-asesor de Tesis**
Co-asesoramiento (con H. Quevedo), a partir de Junio de 2000,
del trabajo doctoral del M. en C. Jeronimo Cortez.
Título de la tesis: *Cuantizacion de Modelos*
Sigma no-lineales: la Cosmologia de Gowdy T^3,
con un 100% de avance. Fecha de titulacion: 9 Julio de 2003.
Posgrado en Ciencias Físicas, UNAM, Mexico

2003- **Tutor Principal, PCF**
Asesoramiento, a partir de 2003,
del trabajo doctoral de los Fis. Alejandro Gonzalez
y Alexander Caicedo, y el M. en C. William Cuervo en
el Posgrado en Ciencias Físicas

UNAM, Mexico

2006 **Asesor de Tesis**
Asesoramiento, a partir de 2006,
del Trabajo de Investigacion (Maestria) de los Lic. Enrique Fernandez
y Jacobo Diaz. Fecha de obtencion del grado:
Junio y Octubre de 2006, respectivamente.
Universidad de Valencia, España

2006- **Asesor de Tesis**
Asesoramiento, a partir de 2006,
del trabajo doctoral de los Lic. Enrique Fernandez
y Jacobo Diaz, en el programa de
Doctorado de la Universidad de Valencia,
España

1997- **Comités Tutorales**
Miembro de los comités tutorales de los M. en C. Roman Linares,
Igor Peña, Jeronimo Cortez y de los Srs. Alejandro Gonzalez,
Oztoc Flores y Belinka Gonzalez en el programa de doctorado y del
Fis. Raymundo Perez, el Sr. Leandro Chernicoff, Tiber Ramirez
y el Lic. Hugo Solis en el programa de maestria.
Posgrado en Ciencias Físicas, UNAM.

1997- **Sinodal**
He sido sinodal en 5 exámenes profesionales en la Fac. de Ciencias, UNAM
(Jeronimo Cortez, Catalina Espinoza, Erika Reyes, Alejandro Gonzalez
y Pablo Castañeda) y 8 examenes de doctorado: Merced Montesinos,
Departamento de Física, CINVESTAV. J. Cortez, J.A. Gonzalez,
R. Linares, E. Okon, PCF, UNAM. H.H. Hernandez, UAM-I,
G. Frias, UAEM y E. Manrique, UMSNH.

2002 **Sinodal Externo**
Invitado a ser sinodal externo del Sr. Kevin Setter
en el programa de Honors, Swarthmore College, Swarthmore
Pennsylvania, USA.

2003-2004 **Asesor de Postdoctorado, ICN-UNAM**
Asesoramiento, de Agosto de 2003 a Dic. 2004,
del trabajo Postdoctoral del Dr. Jeronimo Cortez
Instituto de Ciencias Nucleares (Proyecto Conacyt J32754-E)
UNAM, Mexico

1998 **Cursos de Doctorado.**
1). Métodos Geométricos en Cuantización

3 hrs/semana, Departamento de Física, CINVESTAV, Semestre 98-I

2). Geometría Cuántica en Gravedad No-perturbativa
3 hrs/semana, Departamento de Física, CINVESTAV, Semestre 98-II

3). Geometría de la Teoria Cuántica de Campos
4 hrs/semana, Posgrado en Matematicas, UNAM-UMSNH, Semestre 08-I

1998- **Cursos de Licenciatura.**
1) Métodos Geométricos en Física Matemática
3 hrs/semana, Facultad de Ciencias, UNAM, Semestre 98-II

2) Relatividad
3 hrs/semana, Facultad de Ciencias, UNAM, Semestre 99-II

3) Relatividad General
4.5 hrs/semana, Facultad de Ciencias, UNAM, Semestre 00-I

4) Relatividad
3 hrs/semana, Facultad de Ciencias, UNAM, Semestre 01-I

5) Relatividad General
4.5 hrs/semana, Facultad de Ciencias, UNAM, Semestre 03-II

6) Relatividad General I
4 hrs/semana, F. de Ciencias Fisico Matematicas, UMSNH, 06-II

1998- **Cursos del Posgrado en Ciencias Fisicas, UNAM.**
1) Formulación Geométrica de la Mecánica Cuántica
3 hrs/semana, Instituto de Ciencias Nucleares, UNAM, Semestre 99-II.

2) Relatividad General
4.5 hrs/semana, ICN-UNAM, Semestre 00-II

3) Relatividad General Avanzada
4 hrs/semana, ICN-UNAM, Semestre 03-II

4) Relatividad General Avanzada
4 hrs/semana, ICN-UNAM, Semestre 04-II

5) Aspectos Cuanticos de la Gravitacion
4 hrs/semana, ICN-UNAM, Semestre 05-II

Actividades de Apoyo Institucional

1997-2001	**Miembro de Comite** Comite Organizador del Seminario Departamental DGyTC, ICN, UNAM.
1999-2001	**Miembro de Comite** Comite de la Unidad de Docencia y Formacion de Recursos Humanos Instituto de Ciencias Nucleares, UNAM.
1999-2001	**Miembro de Comite** Comite de Biblioteca Instituto de Ciencias Nucleares, UNAM.
2000-2001	**Representante (Suplente)** Representante de los tutores del ICN-UNAM ante el Comite Academico del Posgrado en Ciencias Fisicas, UNAM.
2001-2005	**Representante** Representante del Director del ICN-UNAM ante el Comite Academico del Posgrado en Ciencias Fisicas, UNAM.
2000-2001	**Consejero Representante** Consejero Representante del Personal Academicos del ICN-UNAM ante el Consejo Tecnico de la Investigacion Cientifica, UNAM.
2000-01, 2002-05	**Miembro del Consejo Interno** Consejo Interno del ICN-UNAM.
2003-2005	**Coordinador de Area** Coordinador del "paquete" de gravitacion y cosmologia Posgrado en Ciencias Fisicas, UNAM.
2003	**Presidente de Mesa Coordinadora** Seminarios de Diagnostico Locales, CECU, ICN-UNAM
2002-2004	**Jefe de Departamento** Departamento de Gravitacion y Campos del ICN-UNAM.
2004	**Miembro de la Terna para ocupar la Direccion** Instituto de Ciencias Nucleares, UNAM, periodo 2004-2008.
2004-	**Miembro de Comision** Comision de Television-UNAM, 2005 Año Internacional de la Fisica,

2004-2005 **Coordinador de Unidad**
Unidad de Docencia y Formacion de Recursos Humanos del ICN-UNAM.

2007- **Miembro de Comision**
Comision de Vinculacion y Enlace Interinstitucional, IMUNAM-Morelia
Unidad Morelia IM-UNAM.

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Citas

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No. de Articulos con más de 50 citas: 3
No. de Articulos con más de 10 citas: 14

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