

Curriculum Vitae

Carlos Ulises Moulines

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PERSONAL DETAILS

Born 26 October, 1946, in Caracas, Venezuela, Venezuelan and Spanish citizenship, married, no children.

Grammar school in Caracas, high school in Barcelona. College in Barcelona. Postgraduate studies in Munich.

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Munich Center for Mathematical Philosophy.
University of Munich
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CURRENT ACADEMIC POSITION

Professor emeritus of the University of Munich.
Ordinary Member of the Bavarian Academy of Science.

ACADEMIC CAREER

a) Studies

- Undergraduate studies in Physics, Philosophy and Psychology, at the University of Barcelona, from October 1965 to June 1971.
- **Master of Arts ("Licenciatura") in Philosophy at the University of Barcelona, Spain, with the highest grade, June 1971.**
- Scientific Research Fellow of the German Academic Exchange Office (DAAD) for postgraduate studies in Logic, Theory of Science and History of Science at the University of Munich under the direction of Prof. Dr. Dr. Wolfgang Stegmüller, from September 1971 to June 1975.

- Scientific Research Fellow of the DFG (German Society for Scientific Research) research project "Theoretical Terms" under the direction of Prof. Stegmüller, June 1972 to May 1974.
- Scientific Research Fellow of the DFG research project "Conceptual Levels in Physics" under the direction of Prof. Dr. Andreas Kamlah (University of Osnabrück) from June 1974 to March 1975.
- **Ph. D. in Logic and Philosophy of Science with the qualification "summa cum laude" at the University of Munich, September 1975.**

b) Teaching and research positions

- Assistant Professor ("Wissenschaftlicher Assistent") at the Institute of Statistics and Philosophy of Science at the University of Munich, April 1975 to January 1976.
- **Tenured Professor at the Institute of Philosophical Research ("Instituto de Investigaciones Filosóficas") at the National Autonomous University of Mexico ("Universidad Nacional Autónoma de México" – "UNAM"), April 1976 to December 1983 (with interruptions).**
- Associate Professor of Logic and Philosophy of Science at the Faculty of Philosophy at the UNAM, October 1976 to July 1977.
- Visiting Professor of Philosophy of Science at the Institute of Advanced Studies of Mexico ("Colegio de México"), April to July 1977 and September 1979 to July 1980.
- Visiting Lecturer at the University of California at Santa Cruz, USA, September 1977 to June 1978.
- Visiting Professor at the Center of Logic, Epistemology and History of Science ("Centro da Lógica, Epistemologia e Historia da Ciência") at the University of Campinas, Brazil, August 1978.
- Research Fellow at the Center for Interdisciplinary Research („Zentrum für interdisziplinäre Forschung" – "ZiF") in Bielefeld (Germany), September 1978 to June 1979.
- Substitute Professor (for Prof. Stegmüller) at the Institute of Statistics and Philosophy of Science at the University of Munich, April to September 1980.
- Associate Professor of Philosophy of Science at the Faculty of Philosophy at the UNAM, Department of Postgraduate Studies ("División de Estudios de Posgrado"), September 1980 to December 1983 (with interruptions).
- Associate Professor of Philosophy of Science at the Autonomous Metropolitan University ("Universidad Autónoma Metropolitana" – "UAM" -) in Iztapalapa (Mexico City), January 1981 to December 1983 (with interruptions).

- Substitute Professor (for Prof. Dr. Lorenz Krüger) at the University of Bielefeld, Department of Philosophy, October 1981 to March 1982.
- Visiting Professor at the University of Bielefeld, Department of Philosophy, April to September 1983.
- **Tenured Professor ("C 4 - Professor") of Philosophy of Science at the University of Bielefeld, Department of Philosophy, January 1984 to March 1988.**
- Visiting Professor at the Institute of Philosophy, UNAM, Mexico, July to August 1985.
- Visiting Professor at the Department of Philosophy of the Basque University ("Universidad del País Vasco"), San Sebastián, Spain, February to April 1987.
- Fellow at the Institute of Advanced Studies ("Wissenschaftskolleg") in Berlin, October to November 1987.
- Visiting Professor at the Institute of Philosophy at the UNAM, Mexico, November to December 1987.
- **Tenured Professor ("C 4 - Professor") of Philosophy and History of Science at the Institute of Philosophy of the Free University of Berlin, April 1988 to March 1993.**
- Visiting Professor at the Basque University, San Sebastián, Spain, March to April 1989.
- Visiting Professor at the University of Santiago de Compostela ("Universidad de Santiago de Compostela"), Spain, February to March 1990.
- Visiting Professor at the Basque University, San Sebastián, Spain, March to April 1990.
- Visiting Professor at the University of Leipzig, April to July 1991.
- Visiting Professor at the University of Santiago de Compostela, March to April 1992.
- **Tenured Professor ("Ordinarius") for Philosophy, Logic and Theory of Science at the Faculty of Philosophy of the University of Munich from April 1993 to March 2012.**
- **Chairman of the Institute for Philosophy, Logic and Theory of Science (later: "Munich Center for Mathematical Philosophy") of the University of Munich from June 1993 to March 2012.**
- Visiting Professor at the University of Valencia (Spain), March 1994.

- UNESCO Chair in Philosophy, Simón Bolívar University, Caracas (Venezuela), September/October 1996.
- Visiting Professor at the "Ecole Normale Supérieure", Paris, March 1999.
- **President of the German Society for Analytic Philosophy ("Gesellschaft für Analytische Philosophie" – „GAP“), 1997 - 2000.**
- **Dean of the Faculty of Philosophy, Theory of Science and Statistics of the University of Munich from October 2000 to September 2002.**
- **Researcher at the „Ecole Normale Supérieure“, Paris, October 2003 – September 2004.**
- Visiting Professor at the University of Santiago de Compostela, March 2009.
- Visiting Professor at the der University of Valencia, March 2010.
- Visiting Professor at the University of the Basque Country, April 2012.
- **Professor emeritus of the University of Munich, since April 2012.**

MAIN RESEARCH AREAS

General Philosophy of Science
 Formal Reconstructions of Physical Theories
 General Theory of Knowledge
 History of the Physical Sciences
 History of the Philosophy of Science
 Formal Ontology
 Political Philosophy

PUBLICATIONS

a) Books

- (1) *La estructura del mundo sensible. Sistemas fenomenalistas.* (Barcelona: Ariel), 1973, 277.
- (2) *Zur logischen Rekonstruktion der Thermodynamik. - Eine wissenschaftstheoretische Analyse.* (Munich: Universität München), 1975, 112.
- (3) *Exploraciones metacientíficas. Estructura, desarrollo y contenido de la ciencia.* (Madrid: Alianza Editorial), 1982, 371.
- (4) (with W. Balzer and J.D. Sneed) *An Architectonic for*

- Science - The Structuralist Program*. (Dordrecht: Reidel), 1987, 431.
- (5) *Pluralidad y recursión. Estudios epistemológicos*. (Madrid: Alianza Editorial), 1991, 310.
 - (6) *Antes del olvido - Tríptico de la contemplación del tiempo* (Mexico-City: CONACULTA), 1996, 205.
 - (7) (with J.A. Díez) *Fundamentos de Filosofía de la Ciencia* (Barcelona: Ariel) 1997, 501 (3rd revised and enlarged edition: 2008, 527).
 - (8) *Manifiesto nacionalista* (Barcelona: La Campana), 2002, 94.
 - (9) *Manifest nacionalista* (Barcelona: La Campana), 2002, 89 (Catalan translation of (8)).
 - (10) *La philosophie des sciences – L'invention d'une discipline*. (Paris: Editions de la Rue d'Ulm), 2006, 171.
 - (11) *Die Entwicklung der modernen Wissenschaftstheorie (1890-2000). Eine historische Einführung*. (Hamburg: LIT-Verlag), 2008, 210.
 - (12) *Manifestu nazionalista*. (Tafalla, Spain: Txalaparta), 2008, 118. (Basque translation of (8)).
 - (13) *El desarrollo moderno de la filosofía de la ciencia (1890 – 2000)*, (Mexico-City: UNAM) (Spanish translation of (11)), 2011, 186.
 - (14) (with W. Balzer and J. D. Sneed) *Una arquitectónica para la ciencia – El programa estructuralista*. (Buenos Aires: Universidad Nacional de Quilmes), 2012 (Spanish translation and revision of (4)), 498 p.
 - (15) *Popper y Kuhn – Dos gigantes de la filosofía de la ciencia del siglo XX* (Barcelona: Batiscafo), 2015, 139 p.
 - (16) *Popper e Kuhn – Due gigante della filosofia della scienza del XX secolo*. (Milano: Hachette), 2015, 139 p. (Italian translation of (15)).
 - (17) *Popper e Kuhn – Dois gigantes da filosofia da ciência do século XX*. (Portugal: EMSE EDAPP), 2015, 139 p. (Portuguese translation of (15)).
 - (18) *O desenvolvimento moderno da filosofia da ciencia (1890-2000)* (Sao Paulo: Associação Filosófica Scientiae Studia), 2020, 270 p. (Portuguese translation of (13)).

b) Edited Anthologies

- (1) *La ciencia: estructura y desarrollo. Enciclopedia Iberoamericana de Filosofía*, volume 4. (Madrid: Trotta/CSIC), 1993, 234.
- (2) (with W. Balzer) *Structuralist Theory of Science. Focal Issues, New Results*. (Berlin: De Gruyter), 1996, 295.
- (3) (with W. Balzer and J.D. Sneed) *Structuralist Knowledge Representations: Paradigmatic Examples* (Amsterdam: Rodopi), 2000, 362.
- (4) *Structuralism*. (Special Issue of *Synthese*) vol. 130/1
(Dordrecht: Kluwer), 2002, 172.
- (5) (with K.G. Niebergall) *Argument und Analyse* (Paderborn: mentis), 2002, 430.

c) Articles

- (1) "Bertrand Russell: la infatigable búsqueda de certeza". *Revista Nacional de Cultura* 196, Caracas, 1971, 54-59.
- (2) "Rudolf Carnap y el método científico en filosofía". *Revista Nacional de Cultura* 200, Caracas, 1971, 66-73.
- (3) "En el mundo debe valer por lo menos una ley". *Teorema* 5, Valencia, 1972, 61-79.
- (4) "Un problema de interpretación: la significación del 'logos' en Heráclito". *Boletín del Instituto de Estudios Helénicos* VI/2, Barcelona, 1972, 77-91.
- (5) "Lo analítico y lo sintético: dualismo admisible" *Teorema* III/1, Valencia, 1973, 89-97.
- (6) "Hacia un nuevo concepto de teoría empírica". *Convivium* 39, Barcelona, 1973, 15-26.
- (7) "A Logical Reconstruction of Simple Equilibrium Thermodynamics". *Erkenntnis* 9/I, 1975, 101-130.
- (8) "La génesis del positivismo en su contexto científico". *Diánoia*, Mexico, 1975, 31-49.
- (9) "Approximate Application of Empirical Theories. A General Explication". *Erkenntnis* 10/II, 1976, 201-227.

- (10) "Un concepto estructural de aproximación empírica". *Crítica* 24, Mexico, 1976, 25-51.
- (11) "Los fundamentos metodológicos de la filosofía natural de Isaac Newton". *Diánoia*, Mexico, 1976, 27-43.
- (12) "El problema del atomismo geométrico en Epicuro". *Diánoia*, Mexico, 1977, 1-12.
- (13) "Por qué no soy materialista". *Crítica* 26, Mexico, 1977, 25-37, reprinted in: J. Esquivel (ed.), *La polémica del materialismo*, (Madrid: Tecnos), 1982, 9-29.
- (14) "Reconstrucción estructural de las teorías físicas". *Revista Latinoamericana de Filosofía* III/2, Buenos Aires, 1977, 117-129.
- (15) "Forma y contenido de las revoluciones científicas: el caso de la mecánica newtoniana". In: A. Sánchez Vázquez et al. (eds.), *La filosofía y las revoluciones científicas* (Mexico: Editora Grijalbo), 1978, 177-188.
- (16) "Cuantificadores existenciales y principios-guía en las teorías físicas". *Crítica* 29, Mexico, 1978, 59-88.
- (17) "Theory-Nets and the Evolution of Theories: The Example of Newtonian Mechanics". *Synthese* 41/3, 1979, 417-439.
- (18) "Qué hacer en filosofía de la ciencia: una alternativa en catorce puntos". *Crítica* 32, Mexico, 1979, 51-84.
- (19) "Las tribulaciones del materialismo: réplica a mis críticos". *Crítica* 33, Mexico, 1979, 87-118.
- (20) (With J.D. Sneed) "Suppes' Philosophy of Physics". In: R.J. Bogdan (ed.), *Patrick Suppes* (Dordrecht: Reidel), 1979, 59-91.
- (21) "Helmholtz' sinnesphysiologische Erkenntnistheorie". In: H.N. Jahnke and M. Otte (eds.) *Epistemologische und soziale Probleme der Wissenschaftsentwicklung im frühen 19. Jahrhundert* (Bielefeld: Universität Bielefeld), 1979, 196-209.
- (22) "El método axiomático". *Episteme* 4, Mexico, 1980, 24-30.
- (23) "A Concepção Kuhneana da Ciência e a Revolução Newtoniana em Mecânica". *Ciência e Filosofia* 2, Sao Paulo, 1980, 37-48.
- (24) "La ontosemántica de las teorías físicas". *Teorema* XXI, Valencia, 1980, 25-42.
- (25) (With W. Balzer) "On Theoreticity". *Synthese* 44, 1980, 467-494.
- (26) "Intertheoretic Approximation: The Kepler-Newton Case". *Synthese* 45, 1980, 387-412.

- (27) "An example of a Theory-Frame: Equilibrium Thermodynamics". In: J. Hintikka, et al. (eds.) *Probabilistic Thinking, Thermodynamics, and the Interaction of the History and Philosophy of Science* (Dordrecht: Reidel), 1981, 211-238.
- (28) "Reply to J.D. North's "On Making History". In: J. Hintikka et al. (eds.), *op. cit.*, 287-290.
- (29) "Hermann von Helmholtz: A Physiological Approach to the Theory of Knowledge". In: H.N. Jahnke and M. Otte (eds.) *Epistemological and Social Problems of the Sciences in the Early Nineteenth Century*. (Dordrecht: Reidel), 1981, 65-73.
- (30) "Orwell: de la Guerra Civil Española a 1984". *Vuelta* 50, Mexico, 1981, 18-22.
- (31) (With W. Balzer) "Die Grundstruktur der klassischen Partikelmechanik und ihre Spezialisierungen". *Zeitschrift für Naturforschung* 36a, 1981, 600-608.
- (32) (With I. Jané) "Aproximaciones admisibles dentro de teorías empíricas". *Crítica* 38, Mexico, 1981, 53-75.
- (33) "A General Frame for Intertheoretic Approximation". In: A. Hartkämper and H.J. Schmidt (eds.) *Structure and Approximation in Physical Theories*. (New York: Plenum), 1981, 123-146.
- (34) "La filosofía de las ciencias y las ciencias de la cultura". *Metamorfosis* 13, Chihuahua, 1981, 21-26.
- (35) "Black, White, and Gray: Against Philosophical Extremism". In: P. Cohen (ed.) *Transparencies* (New Jersey: Humanities Press), 1981, 115-124.
- (36) "A Study in Protophysics". In: J. Agassi and R.S. Cohen (eds.) *Scientific Philosophy Today* (Dordrecht: Reidel), 1982, 207-224.
- (37) "Dostoyevsky y los inquisidores, 100 años después". *Vuelta* 73. Mexico, 1982, 48-51.
- (38) "Notas contra todólogos: respuesta a Elia Nathan". *Crítica* 42, Mexico, 1982, 97-107.
- (39) "Las raíces epistemológicas del *Aufbau* de Carnap". *Diánoia*, Mexico, 1982, 213 -234.
- (40) "On How the Distinction Between History and Philosophy of Science Should Not be Drawn". *Erkenntnis* 19, 1983, 285-296.
- (41) "El discurso matemático en las ciencias empíricas". *Discurso* 1/2, Mexico, 1983, 21-32.
- (42) "Ontological Reduction in the Natural Sciences". In: W. Balzer et al. (eds.), *Reduction in Science* (Dordrecht: Reidel), 1984, 51-70.

- (43) "Existential Quantifiers and Guiding Principles in Physical Theories". In: J.J.E. Gracia et al. (eds.), *Philosophical Analysis in Latin America* (Dordrecht: Reidel), 1984, 173-198.
- (44) "Links, Loops, and the Global Structure of Science". *Philosophia Naturalis* 21 (2-4), 1984, 254-265.
- (45) "Axiomatización de la termodinámica. Ejemplo de análisis metacientífico". *Ciencia* 35, Mexico, 1984, 65-76.
- (46) "Set tesis metacientíficas". *Enrahonar* 7/8, Barcelona, 1984, 121-122.
- (47) "Theoretical Terms and Bridge Principles: A Critique of Hempel's (Self-) Criticisms". *Erkenntnis* 22, Dordrecht, 1985, 97-117.
- (48) "Hintergründe der Erkenntnistheorie des frühen Carnap." *Grazer Philosophische Studien* 23, Graz, 1985, 1-18.
- (49) "Tipología axiomática de las teorías empíricas." *Crítica* XVII/51, Mexico, 1985, 41-67.
- (50) (With W. Balzer and J.D. Sneed) "The Structure of Science: Local and Global." in: R. Barcan Marcus, G.J.W. Dorn, P. Weingartner (eds.) *Logic, Methodology, and Philosophy of Science* (Amsterdam: North-Holland, 1986), 291-306.
- (51) "Filosofía de la Ciencia - Historiografía de la Ciencia: ¿Dos caras de la misma medalla?". In: M.S. de Mora and J. Echeverría (eds.) *Actas del III Congreso de la Sociedad Española de Historia de las Ciencias* (San Sebastián: Editorial Guipuzcoana, 1986), 53-66.
- (52) "The Ways of Holism." *Nous* XX/3 Bloomington, Indiana, 1986, 313-330.
- (53) "Le rôle de Wolfgang Stegmüller dans l'épistémologie allemande contemporaine." *Archives de Philosophie* 50/1, Paris, 1987, 3-22.
- (54) (With W. Balzer and J.D. Sneed) "The Structure of Daltonian Stoichiometry." *Erkenntnis* 26/1, Dordrecht, 1987, 103-128.
- (55) "The Basic Structure of Neo-Gibbsian Equilibrium Thermodynamics (Some Methodological Problems in the Philosophy of Thermodynamics)". *Journal of Non-Equilibrium Thermodynamics* 12/1, Berlin/New York, 1987, 61-76.
- (56) "Kann eine adäquate Semantik den Skeptizismus widerlegen?". In: G. Pasternack (ed.) *Philosophie und Wissenschaften: Das Problem des Apriorismus* (Frankfurt on Main: Peter Lang, 1987), 281-283.
- (57) "¿Axiomatizó Newton la mecánica?" *Arbor* 501, Madrid, 1987, 97-121.
- (58) "Referencia de términos científicos e inconmensurabilidad." In: J.J. Acero and T. Calvo Martínez (eds.) *Symposium Quine* (Granada: Universidad de Granada, 1987), 85-103.

- (59) "La metaciencia como arte." *Quaderns* 38, Barcelona, 1988, 44-58.
- (60) "J. Willard Gibbs und die theoretische Entwicklung der Thermodynamik." in: W. Muschik and E. Scheibe (eds.) *Philosophie, Physik, Wissenschaftsgeschichte* (Berlin: Technische Universität Berlin, 1988), 148-164.
- (61) "Die Entstehung und Struktur der Axiomatisierung der Mechanik durch I. Newton." In: H. Poser and C. Burrichter (eds.) *Die geschichtliche Perspektive in den Disziplinen der Wissenschaftsforschung*, (Berlin: Technische Universität Berlin, 1988), 47-73.
- (62) "Comment on Balzer (1988)." In: E. Villanueva (ed.) *Primer Simposio Internacional de Filosofía* (Mexico: UNAM, 1988), vol. II, 75-82.
- (63) (With R. Torretti) "Extractos de una correspondencia." *Diálogos* 53, Puerto Rico, 1989, 123-137.
- (64) "Structuralism and Holism in Philosophy of Science." In: P. Weingartner and G. Schurz (eds.) *Philosophy of the natural sciences. Proceedings of the 13th International Wittgenstein-Symposium*, Kirchberg/Wechsel, Austria 1988 (Vienna: Hölder-Pichler-Tempsky, 1989), 354-358.
- (65) "The Emergence of a Research Programme in Classical Thermodynamics." In: K. Gavroglu and Y. Goudaroulis (eds.) *Imre Lakatos and Theories of Scientific Change* (Dordrecht: Kluwer), 1989, 111-121.
- (66) "Socialismo o racismo: ésta es la cuestión." *Arbor* 521, Madrid, 1989, 51-69.
- (67) "¿Hay una filosofía de la ciencia en el último Wittgenstein?" *Theoria* IV/11, San Sebastián, 1989, 327-342.
- (68) "Zur Zwangsversetzung des Instituts für Philosophie der FU Berlin." *Das Argument* 173, Berlin, 1989, 45-48.
- (69) "Comment on Sneed (1989)." in: E. Villanueva (ed.) *Tercer Simposio Internacional de Filosofía* (Mexico: UNAM, 1989) vol. I, 121-133.
- (70) "Frege, la verdad y el desarrollo científico" in: W.J. González (ed.) *Aspectos metodológicos de la investigación científica. Un enfoque multidisciplinar* (Madrid: Universidad Autónoma, 1990), 97-116.
- (71) "The Classical Spirit in J. Willard Gibbs's Classical Thermodynamics" in: K. Martinás, L. Ropolyi, P. Szegedi (eds.), *Thermodynamics: History and Philosophy. Facts, Trends, Debates*. Veszprém, Hungary, (London, etc.: World Scientific, 1991), 7-28.
- (72) "Zur Typologie intendierter Anwendungsformen im Allgemeinen." *Ethik und Sozialwissenschaften* 2/1, 1991, 143-145.

- (73) "Pragmatisch-diachronische Aspekte der Wissenschaftstheorie."
Untersuchungen zur Logik und zur Methodologie 8, Leipzig, 1991, 1-21.
- (74) "Making Sense of Carnap's *Aufbau*." *Erkenntnis* 35, 1991, 263-286.
- (75) "Hechos y valores: falacias y metafalacias. Un ejercicio integracionista."
Isegoría, 3, Madrid, 1991, 26-42.
- (76) "Über die semantische Explikation und Begründung des wissenschaftlichen Realismus." *Dialektik* 1, Hamburg, 1991, 163-178.
- (77) "La incoherencia dialógica del relativismo sociológico." *Agora*, 10, Santiago de Compostela, 1991, 35-46.
- (78) "Pragmatics in the Structuralist View of Science." In: G. Schurz and G.J.W. Dorn (eds.), *Advances in Scientific Philosophy. Essays in Honour of Paul Weingartner on the Occasion of the 60th Anniversary of his Birthday* (Amsterdam: Rodopi, 1991), 313-326.
- (79) "O Realismo Semántico e a Teoría Causal da Referencia." In: Grupo Aletheia (ed.), *Filosofía da Ciencia* (Vigo, Spain: Ir Indo Edicións, S.A., 1991), 217-241.
- (80) "La concepción estructural de las ciencias como forma de holismo." *Agora*, 11/1, Santiago de Compostela, 1992, 9-18.
- (81) "Desarrollo científico y verdad." *Agora* 11/1, Santiago de Compostela, 1992, 179-182.
- (82) "Towards a Typology of Intertheoretical Relations." In: J. Echeverría et al. (eds.) *The Space of Mathematics. Philosophical, Epistemological, and Historical Explorations* (Berlin, New York: Walter de Gruyter, 1992), 403-411.
- (83) "Zientziaren filosofiaren eginkizuna." In: P. Baztarrika et al. (eds.) *Zer da zientzi teoria delako hori? Egungo zientziaren filosofiarako sarrera* (Bilbao: Servicio Editorial Universidad del País Vasco, 1992), 17-40.
- (84) "La concepción estructuralista de la ciencia." In: C. Martín Vide (ed.) *Lenguajes Naturales y Lenguajes Formales. Actas del VII Congreso de Lenguajes Naturales y Lenguajes Formales, Vic* (Barcelona: PPU, 1992), 75-82.
- (85) "Structures, Links, and Holons." In: H. Westmeyer (ed.) *The Structuralist Program in Psychology: Foundations and Applications* (Seattle: Hogrefe & Huber Publishers), 1992, 13-26.
- (86) "¿Es la vida sueño?". *Dianoia*, Mexico, 1992, 17-33.
- (87) "Fremdenhass und kein Ende." *Gehört gelesen*, 8 (Munich), 1993, 4-7.
- (88) "Introducción." In: C.U. Moulines (ed.) *La Ciencia: estructura y desarrollo, op.cit.*, 11-14.

- (89) "Conceptos teóricos y teorías científicas." In: C.U. Moulines (ed.) *La Ciencia: estructura y desarrollo, op.cit.*, 147-162.
- (90) "Fremdenhass und kein Ende." *wieder ganz deutsch. texte.*
Programmschwerpunkte 93/94 (Munich: Münchner Volkshochschule) 54-57.
- (91) "La percepción en Hermann von Helmholtz." In: *Historia de la Psicología. Textos y Comentarios.* (Madrid: Editorial Tecnos) 1993, 210-216.
- (92) "Zur Lage der Philosophie in Mexiko" in: R. Sevilla and A. Azuela (eds.) *Mexiko - Die institutionalisierte Revolution?* (Unkel/Rh: Horlemann) 1993, 17-26.
- (93) "Platonismo vs. Relativismo en la Teoría del Saber." In: E. Garzón Valdés and F. Salmerón (eds.) *Epistemología y Cultura. En Torno a la Obra de Luis Villoro.* (Mexico-City: Universidad Nacional Autónoma de México) 1993, 11-22.
- (94) "La incoherencia dialógica del relativismo sociológico.", *Praxis Filosófica*, Cali (Colombia), August 1993, 3-19.
- (95) "Javier Esquivel, filósofo socrático." *Diánoia* (Mexico) 1993, 203-207.
- (96) "Naturaleza y sentido de la Filosofía de la Ciencia hoy.", *Filosofía de la Ciencia Hoy*, (Barcelona: Cuadernos "Institut de Teologia Fonamental" nº. 24) 1994, 29-35.
- (97) "Wer bestimmt, was es gibt? Zum Verhältnis zwischen Ontologie und Wissenschaftstheorie", *Zeitschrift für philosophische Forschung.* 48/2, 1994, 175-191.
- (98) (With J.A. Díez) "Theories as Nets: The Case of Combinatorial Measurement Theory". In: P. Humphreys (ed.) *Patrick Suppes: Scientific Philosopher*, Vol. 2, (Dordrecht: Kluwer) 1994, 275-299.
- (99) "La distinción entre hechos y valores: una perspectiva integracionista" In: Salvador Giner, Esperanza Guisán (eds.) *José Ferrater Mora: El hombre y su obra.* (Salamanca: Europa Artes Gráficas) 1994, 87-105.
- (100) "Un modelo operacional del Aufbau de Carnap". In: E. de Bustos et al. (eds.) *Perspectivas actuales de lógica y filosofía de la ciencia.* (Madrid: Siglo Veintiuno de España) 1994, 21-33.
- (101) (With R. Straub) "Approximation and Idealization from the Structuralist Point of View". In: M. Kuokkanen (ed.) *Idealization VII: Structuralism, Idealization and Approximation*, (Amsterdam: Rodopi) 1994, 25-48.
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d) Forewords

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- (13) Ludwig Wittgenstein, *Investigaciones filosóficas*. (UNAM) México, 2017. (New translation, revised and commented, of (12)).

From English

- (13) Ralph Schoenman (ed.), *Homenaje a Bertrand Russell* (with a biographical notice and bibliographical chronology by the translator). (Barcelona: Ed. Oikos-tau), 1968.
- (14) W.H.G. Armytage, *Visión histórica del futuro*. (Barcelona: Península), 1971.

From French

- (15) Jean Dierkens, *Freud: antología sistemática*. (Barcelona: Oikos-tau), 1972.

GUEST LECTURES AND INTERVIEWS

- (1) *La filosofía científica y analítica*. Athenaeum of Caracas, July 1969.
- (2) *Theoriendynamik*. University of Göttingen, March 1973.
- (3) *La reconstrucción lógica de las teorías físicas*. University of Barcelona, March 1974.
- (4) *La concepción estructural de la ciencia*. Central University of Venezuela, Caracas, March 1976.
- (5) *El método axiomático en la ciencia*. University College of Mexico ("Colegio de Ciencias y Humanidades"), August 1976.
- (6) Six Lectures on *Metodología de la contrastación en las ciencias formales*. University of Monterrey, Mexico, February 1977.
- (7) Six Lectures on *Metodología de la contrastación en las ciencias empíricas*. University of Monterrey, Mexico, March 1977.
- (8) Lectures on *Didáctica de la Filosofía*. Institute for Advanced Studies for Teachers ("Colegio de Bachilleres de México"), April to June 1977.
- (9) *On the Fundamental Law of Newtonian Mechanics*. University of California at Santa Cruz, January 1978.
- (10) *Kuhn's View of Science and the Newtonian Revolution in Mechanics*. State University of California, San Jose, April 1978.
- (11) *An Example of a Theory-Frame: Equilibrium Thermodynamics*. Second International Congress on History and Philosophy of Science. Pisa, Italy, September 1978.

- (12) *Intertheoretic Relations*. Zentrum für Interdisziplinäre Forschung, Bielefeld, October 1978.
- (13) *Theoretizität*. Zentrum für Interdisziplinäre Forschung, Bielefeld, November 1978.
- (14) *Gibt es Fortschritt in der Physik? Das Beispiel der Newtonschen Mechanik*. University of Munich, December 1978.
- (15) *Axiomatisierung der Lagrangeschen Mechanik*. University of Munich, December 1978.
- (16) *Die Newtonsche Revolution im Lichte von T. S. Kuhns Wissenschaftsauffassung*. University of Tübingen, January 1979.
- (17) *Ziele und Methoden der Wissenschaftstheorie*. Zentrum für Interdisziplinäre Forschung, Bielefeld, January 1979.
- (18) *Reconstrucción estructural de la termodinámica*. University of Barcelona, February 1979.
- (19) *Redes teóricas y la evolución de la mecánica*. University of Barcelona, February 1979.
- (20) *El positivisme i els fonaments de la ciència*. Athenaeum of Barcelona, February 1979.
- (21) *Some Thoughts on the Philosophy of Science*. Netherlands Institute for Advanced Studies (NIAS), Wassenaar (The Netherlands), February 1979.
- (22) *La ontosemántica de Frege*. University of Valencia, Spain, November 1979.
- (23) *Helmholtz' sinnesphysiologische Erkenntnistheorie*. Zentrum für Interdisziplinäre Forschung, Bielefeld, November 1979.
- (24) *Die Ontosemantik Freges*. University of Frankfurt, December 1979.
- (25) *La revolución newtoniana a la luz de la concepción kuhniana de la ciencia*. University of Morelia, Mexico, March 1980.
- (26) *Consideraciones metodológicas sobre la teoría de la personalidad de Eysenck*. UNAM, Mexico, April 1980.
- (27) *Intertheoretische Approximation: Der Kepler-Newton Fall*. University of Osnabrück, Germany, June 1980.
- (28) *Teoría de juegos y metrización*. UNAM, Mexico, October 1980.
- (29) *Humanismo y filosofía de la ciencia*. University of Chihuahua, Mexico, May 1981.

- (30) *Kant y Wittgenstein: filósofos del límite*. UNAM, Mexico, August 1981.
- (31) *Stufen holistischer Wissenschaftsauffassung*. University of Munich, November 1981.
- (32) *Holism*. University of Tilburg, Netherlands, January 1982.
- (33) *Structures of Science*. University of Leuven, Belgium, January 1982.
- (34) *Hintergründe der Erkenntnistheorie des frühen Carnap*. University of Bielefeld, February 1982.
- (35) *Reconstrucció formal de la mecànica de partícules*. University of Barcelona, February 1982.
- (36) *Reconstrucció formal de la termodinàmica fenomenològica*. University of Barcelona, February 1982.
- (37) *Interview* presented on a Catalan television program about my research in Philosophy of Science, Barcelona, February 1982.
- (38) *Holismo*. University of Barcelona, March 1982.
- (39) *Sobre la naturaleza de la filosofía de la ciencia*. University of Veracruz, Xalapa, Mexico, June 1982.
- (40) *El discurso matemático en las ciencias empíricas*. UNAM, Mexico, September 1982.
- (41) *A Philosopher's Reappraisal of Thermodynamics*. Colorado School of Mines at Golden, Colorado, September 1982.
- (42) *The Ways of Holism*. University of Colorado at Boulder, Colorado, September 1982.
- (43) *El holismo científico*. Open University, Madrid, May 1983.
- (44) *Links, Loops, and the Global Structure of Science*. 7th. International Congress on Logic, Methodology and Philosophy of Science, Austria, July 1983.
- (45) *Sobre la relación entre la historia de la ciencia y la filosofía de la ciencia*. 3rd. Congress of the Spanish Society for History of Science, San Sebastián, October 1984.
- (46) *The Basic Structure of Neo-Gibbsian Equilibrium Thermodynamics*. Technical University of Berlin (West), March 1985.
- (47) *Referencia de términos científicos e inconmensurabilidad*. University of Granada, March 1986.

- (48) *The Logic of Approximation Within Empirical Theories*. University of Helsinki, April 1986.
- (49) *The Emergence of a Research Programme in Classical Thermodynamics*. University of Thessaloniki, August 1986.
- (50) *La incoherencia dialógica del relativismo sociológico*. International University Menéndez Pelayo in Pazo de Mariñán, Spain, September 1986.
- (51) *Interkulturelle Kommunikation: Deutschland-Lateinamerika*. The North-South Forum, Bonn, October 1986.
- (52) *Neue Perspektiven des strukturalistischen Programms*. University of Munich, November 1986.
- (53) *Die dialogische Inkonsistenz des wissenssoziologischen Relativismus*. Free University of Berlin, January 1987.
- (54) *¿Axiomatizó Newton la mecánica?* 1st Symposium on Newton. University of Barcelona, February 1987.
- (55) *La metaciència com a forma d'art*. Symposium on Scientific Imagination at the Museum of Sciences, Barcelona, May 1987.
- (56) *Style in Philosophy of Science*. Symposium on Style, University of Bielefeld, June 1987.
- (57) *Basic Issues in the Structuralist Representation of Science*. Institute for Advanced Studies, Berlin, October 1987.
- (58) *Filosofía de la ciencia y estética*. 4th. Mexican Congress on Philosophy (IV Congreso Nacional de Filosofía), Toluca, Mexico, November 1987.
- (59) *Relativismo moral vs. relativismo epistémico*. 4th Mexican Congress on Philosophy (IV Congreso Nacional de Filosofía), Toluca, Mexico, November 1987.
- (60) *J. Willard Gibbs und die theoretische Entwicklung der Thermodynamik*. Technical University of Berlin (West), February 1988.
- (61) *Wissenschaftstheorie als theoretische Kulturwissenschaft*. University of Munich, June 1988.
- (62) *Welche Art von Entität ist eine wissenschaftliche Theorie? Metatheoretische Überlegungen aufgrund der Ontosemantik Freges*. Center for the Philosophic Foundations of the Sciences, University of Bremen, October 1988.
- (63) *Die axiomatische Struktur von Newtons "Principia"*. Technical University of Berlin (West), October 1988.

- (64) *Approximation in empirischen Theorien*. 3rd Congress on Psychological Theories from a Structuralist Point of View. Bad Homburg, November 1988.
- (65) *¿Hay una filosofía de las ciencias empíricas en el último Wittgenstein?* Symposium on Science and Language in Wittgenstein. Barcelona, December 1988.
- (66) *Filosofía como pensamiento crítico*. Basque University, Vergara, March 1989.
- (67) *¿Hay una Filosofía de la Ciencia en el último Wittgenstein?* Basque University, San Sebastián, March 1989.
- (68) *Holismus vs. Operationalismus in der Wissenschaftstheorie*. Free University of Berlin, June 1989.
- (69) *Was ist Philosophie?* Free University of Berlin, July 1989.
- (70) *Modelltheoretische Rekonstruktion intertheoretischer Relationen*. 4th. Congress on Psychological Theories from a Structuralist Point of View. Bad Homburg, October 1989.
- (71) *Modelltheoretische Rekonstruktion intertheoretischer Relationen*. University of Tübingen, December 1989.
- (72) *Frege, la verdad y el desarrollo científico*. University of Murcia, Spain, March 1990.
- (73) *El realismo semántico y la teoría causal de la referencia*. 5th. Congress of the Society "Aletheia", Vigo, Spain, March 1990.
- (74) *The Classical Spirit in J. Willard Gibbs's Classical Thermodynamics*. International Congress on the History of Thermodynamics. Veszprém, Hungary, July 1990.
- (75) *Towards a Typology of Intertheoretical Relations*. International Symposium on Structures in Mathematical Theories. San Sebastián, September 1990.
- (76) *Gibt es etwas außer mir selbst?* University of Munich, November 1990.
- (77) *Reflexiones sobre la actualidad del "Aufbau" de Carnap*. International Congress on the Philosophy of Rudolf Carnap. San Sebastián, April 1991.
- (78) *¿Qué clase de cosas son las teorías científicas?* Complutense University, Madrid, April, 1991.
- (79) *El realismo semántico y la teoría causal de la referencia*. UNED, Madrid, April, 1991.

- (80) *Formalizing Intertheoretical Relations within the Structuralist Approach*. International Congress on Recent Advances in the Philosophy of Science, Amsterdam, August 1991.
- (81) *La concepción estructuralista de la ciencia*. 7th Colloquium on Natural and Formal Languages, University of Barcelona, Vic, September 1991.
- (82) *Sobre la vacuidad epistémica de la noción de verdad*. 6th National Congress on Philosophy in Mexico, Chihuahua, October 1991.
- (83) *Una interpretación operacional del "Aufbau" de Carnap*. Complutense University, Madrid, November 1991.
- (84) *Frege, la verdad y el desarrollo científico*. University of Valladolid, March 1992.
- (85) *Holismus vs. Operationalismus in der Philosophie der Physik*. Free University of Berlin, May 1992.
- (86) *Theories as Nets: The Case of Combinatorial Measurement Theory*. International Congress on "Probability and Empiricism in the Work of Patrick Suppes". Venice, June 1992.
- (87) *Is Life a Dream?* Symposium on Hilary Putnam. Taxco (Mexico), August 1992.
- (88) *Fremdenhaß und kein Ende*. Free University of Berlin. November 1992.
- (89) *Zur Lage der Philosophie in Mexiko*. Institut für wissenschaftliche Zusammenarbeit mit Entwicklungsländern. Tübingen, February 1993.
- (90) *A Structuralist's Comment on Ludwig*. Symposium on Erhard Scheibe. Bielefeld, August 1993.
- (91) *Sein und Theorie. Zum Verhältnis zwischen Ontologie und Wissenschaftstheorie*. University of Innsbruck, January 1994.
- (92) *Holismus versus Operationalismus in der Wissenschaftstheorie*. University of Tübingen, January 1994.
- (93) *La Filosofía de la Ciencia como Ciencia de la Cultura*. University of Barcelona, February 1994.

- (94) *¿Qué clases de cosas hay?* UNAM, Mexico, September 1994.
- (95) *La Concepción Estructural de las Ciencias.* University Simón Bolívar, Caracas October 1994.
- (96) *Holismus versus Operationalismus in der Wissenschaftstheorie.* University of Göttingen, May 1995.
- (97) *¿Uno o varios universos?* International University Menéndez Pelayo, Santander (Spain), September 1995.
- (98) *Is There Anything Besides Myself?* Symposium on "Solipsisms", Crete, Greece, October 1995.
- (99) *Holismus versus Operationalismus in der Wissenschaftstheorie.* University of Salzburg, December 1995.
- (100) *Gibt es etwas außer mir selbst?* University of Gießen, Germany, December 1995.
- (101) *El idealismo más consecuente según Borges: la negación del tiempo.* Congress on "Thought and Knowledge in J.L. Borges". University of Leipzig, March 1996.
- (102) *En defensa del solipsismo.* 2nd. International Congress on Ontology. Universidad Autónoma de Barcelona, March 1996.
- (103) *Die formale Konstruktion der Erfahrung - Poincaré, Russell, Nicod, Carnap.* University of Munich, July 1996.
- (104) *Zur Typologie wissenschaftlicher Entwicklung nach strukturalistischer Deutung.* XVII. German Congress of Philosophy, Leipzig, September 1996.
- (105) *La Noción de Universo Físico como Sistema de Sistemas complejos.* Universidad Autónoma de Barcelona, October 1996.
- (106) *La filosofía de la ciencia como disciplina hermenéutica.* Universidad de La Coruña, Spain, April 1997.
- (107) *Wissenschaftstheorie und Wissenschaftsgeschichte als hermeneutisches Unterfangen.* University of Munich, May 1997.

- (108) *Die Idee eines Universums von einem metatheoretischen Standpunkt aus.* University of Jena, July 1997.
- (109) *¿Es el progreso científico un valor seguro?* CSIC, Madrid, November 1997.
- (110) *¿Dónde se Agazapa la Pragmática en la Representación Estructural de las Teorías?* Universidad Autónoma de Zacatecas (Mexico), February 1998.
- (111) *La cuestión étnica: un análisis conceptual, una propuesta deontológica.* UNED, Madrid, April 1998.
- (112) *Ansätze zu einer Verschmelzung von Ontologie, Epistemologie und Semantik.* University of Munich, June 1998.
- (113) *Ontology, Reduction and the Unity of Science.* 20th World Congress of Philosophy, Boston, August 1998.
- (114) *Die Strukturalistische Modellierung der empirischen Wissenschaft.* University of Cologne, November 1998.
- (115) *Retrospectiva y Prospectiva de la Filosofía de la Ciencia.* 14th Interamerica Congress of Philosophy, Puebla (Mexico), August 1999.
- (116) *La (Re)Construction Formelle de l'expérience: Carnap et Nicod.* Amiens, November 1999.
- (117) *Einheit des Seins, Einheit der Wissenschaft.* Culture Department of the City of Munich, May 2000.
- (118) *Wittgenstein était-il un operationaliste en philosophie des sciences?* Université de Paris I, October 2000.
- (119) *Strukturalistische Wissenschaftstheorie. Eine Position der zeitgenössischen Wissenschaftstheorie.* Konrad Adenauer Foundation, Wendengrabe, Germany, November 2000.
- (120) *Descriptions, Normes et Interprétations dans la Philosophie des Sciences,* Brest, November 2000.
- (121) *Zur Kritik des kulturellen Relativismus.* University of Munich, January 2001.
- (122) *La notion de progrès scientifique et ses problèmes*

- épistémologiques*. Université de Paris X, March 2001.
- (123) *Ontologie, Reduktion, Einheit der Wissenschaft*. Siemens Foundation, Munich, May 2001.
 - (124) *Formal Metatheoretical Criteria of Complexity and Emergence*. Académie Internationale de Philosophie des Sciences, Bergamo, Italy, May 2001.
 - (125) *Taxonomy of Thinking*. Parmenides Association, Starnberg, Germany, June 2001.
 - (126) *Ontoepistemosemantica en Perspectiva Estructuralista*. University of Granada, April 2002.
 - (127) *Kann das Leben ein Traum sein?* BMW-Plattform "Vorstellung und Wirklichkeit", Sonnenhausen, Germany, June 2002.
 - (128) *Unitat de l'ésser, unitat de la ciència*. University of Gerona, Spain, October 2002.
 - (129) *Zur Frage der ontologischen Einheit der Wissenschaften*. University of Hamburg, January 2003.
 - (130) *Sinopsis de una teoría nacionalista*. CSIC, Madrid, March 2003.
 - (131) *Was kann der strukturalistische Ansatz zu einer allgemeinen Ontosemantik wissenschaftlicher Theorien beitragen?* University of Munich, May 2003.
 - (132) *Sobre la cuestión del nacionalismo en general (y una ojeada a Catalunya.)* University of Tübingen, June 2003.
 - (133) *Nacionalismo dentro y fuera de España*. Cervantes Institute, Munich, June, 2003.
 - (134) *Ontologia i Axiologia de les Nacions*. Catalan Research Society, Barcelona, October 2003.
 - (135) *How Many Universes are There?* École Normale Supérieure (ENS), Paris, June 2004.
 - (158) *La cristallisation de théories scientifiques: l'exemple de Rudolf J. Clausius*. ENS. Paris, October 2004.
 - (159) *Wissenschaftstheoretische Modelle als Bilder wissenschaftlicher Erkenntnis*. Center for Arts and Media

Technology. Karlsruhe, October 2004.

- (160) *La cristal·lització de la termodinàmica fenomenològica de R. J. Clausius*. University of Barcelona, May 2005.
- (161) *Explicación teórica y compromisos ontológicos en las ciencias: un modelo estructuralista*. University of Valencia, April 2006.
- (140) *Ontologia i axiologia de les nacions*. University of Valencia, April 2006.
- (162) *Metatheoretical Structuralism: A General Programme for Analyzing Science*. University of Amsterdam, October 2006.
- (163) *Zur Frage einer vereinheitlichenden Ontologie der Wissenschaften*. University of Leipzig, February 2007.
- (164) *El naixement d'una disciplina filosòfica: la filosofia de la ciència*. Catalan Research Society, Barcelona, March 2007.
- (165) *Die Entstehung der Wissenschaftstheorie als interdisziplinäres Fach (1885 - 1914)*. Bavarian Academy of Science, June 2007.
- (145) *Die strukturalistische Modellierung der wissenschaftlichen Theorien*. University of Bonn, March 2008.
- (146) *Der wissenschaftstheoretische Strukturalismus: Ein Programm zur Analyse empirischer Theorien*. University of Jena, May 2008.
- (147) *Gedankenexperimente in Wissenschaft und Philosophie*. Phren Society, Munich, June 2008.
- (148) *Ist die Philosophie eine Wissenschaft?*. Bavarian Catholic Academy, June 2008.
- (149) *Does Scientific Progress Lead to a Unified Science?*. University of Barcelona, March 2009.
- (150) *¿Es la filosofía una ciencia?*. University of Santiago de Compostela, March 2009.
- (151) *Progreso científico y unidad de la ciencia*. University of Santiago de Compostela, March 2009.
- (152) *Ist Philosophie eine Wissenschaft?*. University of Salzburg, May 2009.
- (153) *Zur Frage einer vereinheitlichenden Ontologie der Wissenschaften*. Humboldt University, Berlin, June 2009.

- (154) *Naturwissenschaft als politikfreie Forschung?* Bavarian Academy of Science. Munich, October 2009.
- (155) *¿Es la filosofía una ciencia?* University of Valencia, March 2010.
- (156) *És la filosofia una ciència?* Institut d'Estudis Catalans, Barcelona, June 2010.
- (157) *El nacionalismo. Una base teórica.* University of the Basque Country, Bilbao, October 2010.
- (158) *Der wissenschaftstheoretische Strukturalismus: Ein Programm zur Analyse empirischer Theorien.* University of Osnabrück, January 2011.
- (159) *Der wissenschaftstheoretische Strukturalismus: Ein Programm zur Analyse empirischer Theorien.* University of Vienna, May 2011.
- (160) *Theory-Structuralism: A Program for Analyzing Science.* University of Salzburg, September 2011.
- (164) *Theoretische Erklärung und ontologische Verpflichtungen in den Naturwissenschaften.* Siemens Foundation, Munich, January 2012.
- (163) *Intertheoretical Relations and the Dynamics of Science.* Center for Advanced Studies, Munich, February 2012.
- (164) *Les rapports entre ontologie, épistémologie et sémantique dans les sciences.* École Normale Supérieure, Paris, June 2012.
- (165) *Die vier Grundformen theoretischer Entwicklungen in den Naturwissenschaften.* „Pro Scientia“ Foundation, Szombathely (Hungary), September 2012.
- (166) *Conceptes teòrics a la física: temptativa d'una interpretació realista.* 10th International Ontology Congress, Barcelona, October 2012.
- (167) *Stegmüllers Wende zum 'Non-Statement View'.* Symposium „Wolfgang Stegmüller und die Rückkehr der Analytischen Philosophie“, University of Munich, April 2013.
- (168) *Is There Anything Besides Me?* Workshop on Scepticism, Hochschule für Philosophie, Munich, June 2013.

- (169) *Causalitat i conceptes teòrics a la física: una temptativa d'interpretació realista*. University of Barcelona, October 2013.
- (170) *Construcción estructuralista de teorías – Consideraciones generales y un ejemplo etnológico*. University of Barcelona, August 2014.
- (171) *Ciencia versus política: radiografía de una relación tensa*. Universidad Autónoma Metropolitana, Mexico-City, March 2015.
- (172) *Ma rencontre transnationale et transdisciplinaire avec Francis Wolff*. École Normale Supérieure, Paris, June 2015.
- (173) *Kausalität und theoretische Begriffe in der Physik: Versuch einer realistischen Deutung*. Centrum für Philosophie, Wissenschaftstheorie und Philosophie der Kunst, Vienna, October 2015.
- (174) *Wolfgang Stegmüller: Die Renaissance der deutschen Wissenschaftstheorie*. University of Munich, March 2016.
- (175) *¿Cuál será la actitud de la ciudadanía cara a la ciencia en 2117?* University of Santiago de Compostela, June 2017.
- (176) *Discurso de investidura como Doctor honoris causa*. University of Santiago de Compostela, June 2017.
- (177) *Lo que nos dejamos en el tintero al redactar An Architectonic for Science*. 4th Iberoamerican Congress of Philosophy of Science and Technology. University of Salamanca, July 2017.
- (178) *Nationale Identität als Kulturwert*. Bavarian Academy of Science, Munich, February 2019.
- (179) *Cinisme semàntic i poder autoritari*. Josep Irla Foundation, Barcelona, November 2019.
- (180) *¿Cuál es el valor de la ciencia?* Colloquium of the Latin American Association for Philosophy and History of Science (ALFHC) (via zoom), February 2021.
- (178) *Homenaje a Joe Sneed*. XII Iberoamerican Meeting on the Structuralist Metatheory (via zoom), December 2021.
- (179) *Quin és l'autèntic valor de la ciència?* Institute of Catalan Studies (via zoom), April 2022.

- (180) *Nationale Selbstbestimmung als ethischer Imperativ: Mexiko und Spanien im Vergleich (Conversation with Michael F. Zimmermann)*. Bavarian Academy of Science, June 2022.

ORGANISATION OF CONGRESSES AND SCIENTIFIC MEETINGS

- (1) (With W. Balzer) Colloquium "On Theoreticity".
Zentrum für interdisziplinäre Forschung, sponsored
by named Center. Bielefeld, December 1978.
- (2) (With W. Balzer) Colloquium "Recent Developments
in the Structuralist View of Science". University of
Munich, sponsored by the Society of Friends of the
University, November 1993.
- (3) (With W. Balzer) Colloquium "Paradigmatic
Applications of the Structuralist View of Science".
University of Munich, sponsored by the Society of
Friends of the University, June 1996.
- (4) (With J. Nida-Rümelin) 3rd Congress of the German
Society for Analytical Philosophy (GAP), sponsored by
the German Research Society, Munich, September
1997.
- (5) 4th Congress of the German Society for Analytical
Philosophy (GAP), sponsored by the German
Research Society, Bielefeld, September 2000.
- (6) (With W. Spohn) Symposium on "Problems, Results,
and Perspectives of the Philosophy of Science and
Analytical Philosophy", sponsored by the Society of
Friends of the University of Munich and by the
University of Konstanz. Munich, May 2003.
- (7) Workshop on "Structures and Dynamics of Science".
École Normale Supérieure. Paris, April 2004.
- (8) Workshop on "Ontological Commitments in Science".
École Normale Supérieure. Paris, June 2004.
- (9) Workshop on "Creativity in the Thought of Albert
Einstein", within the 20th German Congress of
Philosophy, Berlin, September 2005.
- (10) (With G. Link) Lecture Series on „Reductionism in
Philosophy and the Sciences". University of Munich,

October 2006 - February 2007.

- (11) Section on the Philosophy of Science within the 22th German Congress of Philosophy. Munich, September 2011.

PARTICIPATION IN FINANCED RESEARCH PROJECTS

- (1) "The Spanish University System in a Democratic Society". Financed by the German Research Society (DFG), 1986-1988.
- (2) "Language, Information, Logic". Financed by the German Research Society, 2002.
- (3) "The function of epistemic values in scientific dynamics and in scientific progress". Financed by the Spanish Ministry for Education and Science, 1996-1999.
- (4) "Analytical principles of theoretical constructions". Financed by the Spanish Ministry for Science and Technology, 2003-2005.
- (5) „Representation and Explanation: Functional and Inherentistic Approaches“. Financed by the Spanish Ministry for Science and Technology, 2008-2011.

DISSERTATIONS LED

- (1) Thomas Bartelborth: *Eine logische Rekonstruktion der Elektrodynamik*. University of Bielefeld, 1987.
- (2) Luis Fernández Moreno: *Wahrheit und Korrespondenz bei Tarski*. Free University of Berlin, 1990.
- (3) José Antonio Díez Calzada: *Metrización y teoriedad*. University of Barcelona, 1992.
- (4) José Luis Falguera: *Problemas ontosemánticos de los términos científicos conforme a la concepción estructuralista*. University of Santiago de Compostela, 1992.
- (5) Pablo Lorenzano: *Geschichte und Struktur der klassischen Genetik*. Free University of Berlin, 1995.
- (6) Wolfgang Heinrich: *Inexakte Messung und Daten-Kinematik*. University of Munich, 1997.
- (7) Ulrike Ritter: *Bilder, Zeichen und Gebärden – Wittgensteins Ansätze zu einer semiotischen Theorie*. University of Munich, 1998.
- (8) Mario Casanueva: *Mendelianas y anexos*. Autonomous University of Barcelona, 1999.

- (9) Martin Rotter, *Eine logische Rekonstruktion der Quantenfeldtheorie*. University of Munich, 2000.
- (10) Christina Schneider: *Leibniz' Metaphysik – Ein formaler Zugang*. University of Munich, 2000.
- (11) Marek Polanski: *Zur logischen Analyse von Theorienreduktion und Theorienäquivalenz*. University of Munich, 2002.
- (12) Maria Caamaño: *El problema de la incomensurabilidad de las teorías científicas*. University of Santiago de Compostela, 2004.
- (13) Ulrich Albert: *Interpretierte Theorien und Reduktionen*. University of Munich, 2005.
- (14) Holger Andreas: *Carnaps Wissenschaftslogik. Eine Untersuchung zur Zweistufenkonzeption*. University of Leipzig, 2005.
- (15) Xavier de Donato: *Idealization and the Growth of Physics*. University of Munich, 2005.
- (16) Mauricio Zuluaga: *Skeptische Szenarien und Argumente*. University of Munich, 2006.
- (17) Christian Tapp: *An den Grenzen des Endlichen. Erkenntnistheoretische, wissenschaftsphilosophische und logikhistorische Perspektiven auf das Hilbert-Programm*. University of Munich, 2007.
- (18) Richard David-Rus: *Explanation and Understanding through Scientific Models*. University of Munich, 2009.
- (19) Ralph Cahn: *Elemente der Transformation einer Wissenschaft – Eine Theorie der Geschichtsschreibung am Beispiel des Periodensystems*. University of Munich, 2011.
- (20) Tilmann Massey: *Theoretical Synthesis – Merging Conceptual Systems in Evolutionary Biology*. University of Munich, 2013.
- (21) Lena Hofer: *(Re)Produktion empirischer Szenarien*. University of Munich, 2015.
- (22) Thomas Meier: *Theory Change and Structural Realism in Linguistics*. University of Munich, 2015.
- (23) Steve Hendra: *An Analysis of Intertheoretical Connections in the Interdisciplinary Field – Some Cases of Cognitive Science*. University of Munich, 2020.
- (24) Omar Rodríguez: *A Novel Defense of Scientific Realism from the Point of View of Metatheoretical Structurelism*. University of Munich, 2020.

ADDITIONAL ACTIVITIES

a) Permanent collaborator of the following journals

- Co-Editor of *Philosophia Naturalis*. Francfort/Main(until 2013).
- Member of the Consulting Board of the following journals:
 - (1) *Erkenntnis*. (Dordrecht, Boston, London).
 - (2) *Theoria*. (San Sebastián).
 - (3) *Zeitschrift für philosophische Forschung* (Francfort).
 - (4) *Archiv für Geschichte der Philosophie* (Berlin) (until 2003).
 - (5) *Metatheoria* (Buenos Aires).

b) Member of the following associations

- (1) Deutsche Gesellschaft für Philosophie
- (2) Sociedad Mexicana de Filosofía.
- (3) Gesellschaft für Analytische Philosophie (GAP)
- (4) Münchner Universitätsgesellschaft
- (8) Centro Cultural Latinoamericano, Munich (until 2001)
- (9) Member of the selection committee for admissions at the École Normale Supérieure, Paris (until 2007).
- (10) Académie Internationale de Philosophie des Sciences
- (11) Humanwissenschaftliches Zentrum, Munich (until 2012)
- (12) Member of the "Conseil d'Administration" at the Ecole Normale Supérieure, Paris (until 2007)

AWARDS AND DISTINCTIONS

- (1) Extraordinary Prize for a Master's Degree ("Premio Extraordinario de Licenciatura") by the University of Barcelona, September 1971.
- (2) National Prize for Scientific Research in the Social Sciences ("Premio Nacional de Investigación Científica en Ciencias Sociales"), by the Academy of Science of Mexico, December 1983.
- (3) UNESCO Chair in Philosophy, October 1996.
- (4) Honorary Member of the Spanish "Sociedad de Lógica, Metodología y Filosofía de la Ciencia".
- (5) Chair of the BBVA-Foundation, Spain, April 1997.
- (6) Chair "Blaise Pascal", Foundation of the Ecole Normale Supérieure, Paris, March 2003.

- (7) Election as Full Member of the Bavarian Academy of Science, February 2004.
- (8) Election as Honorary Member of the Catalan Society for Philosophy, October 2004.
- (9) Election as Honorary Member of the Spanish Society for Analytical Philosophy, February 2005.
- (10) Election as Extraordinary Member of the Frege Center for Structural Sciences, University of Jena, June 2008.
- (11) Election as Corresponding member of the Catalan Research Society ("Institut d'Estudis Catalans"), January 2010.
- (12) *Doctor honoris causa*, Universidad Autónoma Metropolitana, Mexico-City, March 2015.
- (13) *Doctor honoris causa*, University of Santiago de Compostela, Spain, June 2017.

LANGUAGES

- Catalan: Read, speak, and write
- English: Read, speak, and write
- French: Read, speak, and write
- German: Read, speak, and write
- Portuguese: Read
- Spanish: Read, speak, and write