



Telefónica, S.A.

Mr. JUAN IGNACIO CIRAC SASTURAIN
Member of the Board of Directors of Telefónica, S.A.

Born in Manresa (Spain) in 1965.

Ph. D. in Physics, Universidad Complutense de Madrid and Graduated in Theoretical Physics, by such University. Fields of Specialization in Quantum Optics, Quantum Computer, Atomic Physics.

Regarding his professional experience, it is worth stressing: Director of International Max-Planck Research School Quantum Science and Technology (since 2016); Managing Director, Max- Planck Institut für Quantenoptik (2014-2015 and 2005-2007); “Honorarprofessor”, Technical University of Munich (Department of Physics) (since 2002); Director of the Theory Division, Max- Planck Institut für Quantenoptik and member of the Max- Planck society (since 2001); Profesor, Institut für Theoretische Physik, Leopold Franzens Univesität Innsbruck (1996-2001); Research Associate, Joint Institute for Laboratory Astrophysics, University of Colorado (1993-1994); “Full Profesor”, Applied Physics Department, Castilla La Mancha University (1991-1996); Fellow “Training of Investigatory Staff” (General Prog.), Optics Division, Universidad Complutense of Madrid (1989-1991).

Among other activities, could be mentioned the following: Member of the Advisory Council of Fundación La Caixa, Member of the Advisory Board of the Institute for the Interdisciplinary Information Sciences, Tsinghua University (since 2015); Member of the Advisory Board of the Russian Quantum Center (since 2012); Member of the Advisory Board of Annalen der Physik (since 2012); Member of the Scientific Committee, Fundación BBVA (since 2010); Member of the Review Panel, QSIT, Swiss National Science Foundation (2011-2017); Member of the Governing Council of the Spanish public Council for Scientific Research (2008-2010); Member of the Advisory Board of Science Center of Benasque (since 2008); Member of the CIAR Review Panel, Toronto, Canada (2007-2008); Member of the xQIT Visiting Committee, MIT (2007-2009); Member of the Scientific Advisory Board, Centre of Quantum Technology, NUS, Singapore (since 2007); Member of the Advisory Board ITAMP, Harvard University (2007-2010); Associate Editor, Review of Modern Physics (2005-2011); Member of the International Advisory Board QIP IRC, EPSRC, United Kingdom (2005-2008); Member of the Kuratorium IQOQI, Austrian Academy of Sciences (2005-2008); Associate Editor, Revista Española de Física (2002-2005); Founding and managing Editor, Quantum Information and Computation (since 2001); Associate Editor, Physical Review A (2000-2003).



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Among the awards received, the most noteworthy are the following: Max-Planck Medal, German Society of Physics; Gran Gresol Award, Hamburg Prize for Theoretical Physics; Medal of Honor, Fundación García Cabrerizo; Wolf Prize in Physics; Niels Bohr Institute Medal of Honor; Grand Cross of the Order of Dos de Mayo of the Community of Madrid; Premi Nacional de Pensament i Cultura Científica; Benjamin Franklin Medal, Franklin Institute, US; Medal of Honor, University Complutense of Madrid; BBVA Foundation Frontiers of Knowledge Award; Carl Zeiss- Research Award; Science and Arts award - Castellano Manchegos del Mundo, Junta Castilla La Mancha; National Blas Cabrera Prize for Physical, Material and Earth Sciences; 6th International Quantum Communication Award; Prince of Asturias Award for Technical and Scientific Research; Quantum Electronics Prize of the European Physical Society; Medal of the Royal Physical Society of Spain; Felix Kuschenitz Prize of the Austrian Academy of Sciences; National Prize to early-stage researches of the Royal Academy of Exact, Physical and Natural Science.

Other Honors: Honorary Ambassador of Marca Spain; Elected member of the Royal Academy of Sciences, Spain and German Academy of Sciences (Leopoldina); Member of the Sciences Academies of Austria, Barcelona and Zaragoza; Honorary Academic Member of the Academy of Sciences of Murcia region; Member of the American Society of Physics; Honorary member for the Spanish Optical Society (SEDOPTICA); Doctor Honoris Causa of the European University of Madrid, of Zaragoza, of Valencia, of Castilla-La Mancha and the Polytechnic Universities of Valencia and of Catalunya; Distinguished Visiting Professor of Institute for Theoretical Physics (Spain); Institute of Mathematical Science (Spain) of the Perimeter Institute (Canada); Distinguished Guest Professor, Institute of Photonic Science (Spain) and of Technion University (Israel); Hanna Professor, Sanford University; Miller Professor, University of Berkeley (US); Honorary Lecturer, Princeton Center for Theoretical (US); Turing Professor, Tsinghua University (China); Distinguished Erwin Schroedinger Lecturer (Austria); Moore Distinguished Scholar, Caltech University (US); David Ben Gurion Medal, Ben Gurion University (Israel); World's Most Influential Scientific Minds (Thompson Reuters). Mr. Cirac has more than 50.000 citations according to the ISI Web of Knowledge (h index – 106) and the US patent unforgeable Noise – tolerant quantum tokens. He has been lecturer in more than 200 international conferences, developing at the same time, teaching works and public classes.
