

Marc Henneaux



Marc Henneaux studied physics at the University of Brussels in Belgium and received his doctoral degree in 1980 under the supervision of J. Géhéniau.

He was a Visiting Fellow at the University of Princeton for the academic year 1978-1979 and was postdoctoral research associate at the University of Texas from 1981 to 1984. From there, he held a research position at the Belgian Science foundation (FNRS) until 1992, after which he was appointed Associate Professor at the University of Brussels (1993-1996).

He is Full Professor at the University of Brussels since October 1996 and an Associate Member of CECs (Chile) since 1985.

Since January 1, 2004, he is also Director of the International Solvay Institutes for Physics and Chemistry, founded by E. Solvay.

Awards and Honours

Louis Empain Prize, 1989

Francqui Prize, 2000

Corresponding Member of the Royal Academy of Belgium, 2002-2004

Francois Chair - Vrije Universiteit Brussel, 2002-2003

Andrejewski Chair - Universities of Leipzig and Jena, 2003

Member of the Royal Academy of Belgium since 2004

Humboldt Research Award, 2009

Honorary Doctorate, Craiova University (Romania), 2010

ERC Advanced Grant, 2011-2015

Teaching (Notes de cours)

BAC3 - [Compléments de mathématiques](#)

MA1 - [Représentations des groupes et applications à la physique](#)

Selected Publications

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International Solvay Institutes

Honorary members

Baron Jaumotte

Honorary Rector and Honorary President of the ULB

Honorary Director of the Solvay Institutes

Mr Jean-Marie Piret

Attorney General of the Supreme Court of Appeal and Honorary Principal Private Secretary to the King

Mr Jean-Louis Vanherweghem

Former Chairman of the Board of Directors of the ULB

Prof. Irina Veretennicoff

Professor at the VUB

Guests

Prof. Anne De Wit

Professor at the ULB and Scientific Secretary of the Committee for Chemistry

Prof. Hervé Hasquin

Secretary of the Royal Academy for Science and the Arts of Belgium

Prof. Marc Henneaux

Professor at the ULB and Director of the Solvay Institutes

Prof. Franklin Lambert

Professor at the VUB

Prof. Alexandre Sevrin

Professor at the VUB and Scientific Secretary of the Committee for Physics

Madame Marina Solvay

Prof. Géry van Outryve d'Ydewalle

Secretary of the Royal Flemish Academy for Science and the Arts of Belgium

Presidents and Directors

Ernest Solvay, his son Armand Solvay and his grand-son Ernest-John Solvay successively presided over the destiny of the International Solvay Institutes until 1958. In 1958, the Institutes were restructured with the creation of the positions of "President" and "Director".

Presidents

1958-2010: Jacques Solvay

2010-present: Jean-Marie Solvay

Directors

1958-2003: Ilya Prigogine (Professor ULB, 1977 Nobel Laureate in Chemistry)

2003: André Jaumotte (Honorary Rector and Honorary President ULB)

2004-present: Marc Henneaux (Professor ULB)

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et Mathématique at this university. He has been an Associate Member of [CECS](#) since 1985.

Since January 1, 2004, he is also Director of the International Solvay Institutes for Physics and Chemistry, founded by E. Solvay.

He was awarded the [Francqui Prize](#) (Belgium) in the year 2000 and is co-author with Claudio Teitelboim of the book "Quantization of gauge systems" (Princeton University Press, 1992).

[Teaching](#)

[Selected Publications](#)

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Marc Henneaux (b. 1955, [Brussels](#)) is a [Belgian](#) theoretical physicist and professor at the [Université Libre de Bruxelles](#) (ULB). He studied physics at the ULB and obtained his PhD in 1980 under the supervision of J. Géhéniau. Presently he serves as Director of the *Service de Physique Théorique et Mathématique* at the ULB and as the chair of the [International Solvay Institutes for Physics and Chemistry](#) (founded by [Ernest Solvay](#)). In 2000 he was awarded the [Francqui Prize](#) for Exact Sciences.

One of the earliest precursors of the [AdS/CFT](#) correspondence was discovered, already in 1986, by Marc Henneaux and J.D. Brown, who proved that the asymptotic symmetry algebra of (2+1)D gravity reduces to a [Virasoro algebra](#).^[1] Due to the fact that Virasoro algebra is the symmetry algebra of a 2D conformal field theory, the previous result (in a purely classical context) is considered as a precursor of the AdS/CFT correspondence.

Bibliography[[edit](#)]

- C. Teitelboim, M. Henneaux, Quantization of gauge systems, Princeton University Press, 1992.

References[[edit](#)]

1. [Jump up ^](#) Brown, J. D. & Henneaux, M. (1986). "Central charges in the canonical realization of asymptotic symmetries: an example from three-dimensional gravity". *Communications in Mathematical Physics* **104** (2): 207–226.
[Bibcode:1986CMaPh.104..207B](#). [doi:10.1007/BF01211590](#)