Sylvain Carpentier

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Research Interests

Mathematical physics, integrable systems of PDEs and differential-difference equations	
Employment Simons Postdoctoral Research Scientist at Columbia University	07/2017-06/2020
Education -Graduate student at the Massachusetts Institute of Technology, Cambridge MA, supervised by Victor Kac (Fall 2013 spent in Paris 7 under Marc Rosso) -Master of mathematics at Universite Paris Orsay -Student of the Ecole Normale Superieure de Paris	2013-2017 2011-2012 2009-2013
Diplomas and Awards - PhD in Mathematics, Massachusetts Institute of Technology - Johnson Prize for best graduate mathematical paper of the year at MIT A sufficient condition for a Rational Differential Operator to generate an Integrable System	06/2017 $05/2017$
Selected Talks - DART IX, University of Leeds - Seminar of Mathematical physics, University of Columbia - Kolchin seminar, City University of New York Graduate Center - University of Kent, Canterbury - MIT Infinite dimensional algebra seminar, PhD defense - SISSA, Trieste	08/2018 04/2018 09/2017 07/2017 04/2017 07/2016
Conferences and research visits - DART IX at University of Leeds - Representation Theory, Mathematical Physics and Integrable Systems at CIRM, Luminy, France - University of kent, UK, visiting J.P. Wang and A. Mikhailov - Geometry and Representation Theory, Schrodinger Institute, Vienna -SISSA, Trieste, visiting V. Kac and B. Dubrovin - Perspectives in Lie Theory, Centro de Giorgi, Pisa -Universita di la Sapienza, Rome, visiting Alberto De Sole -IHES, Bures sur Yvette, France - Algebraic Structures in Integrable Systems at Moscow State University,	08/2018 $06/2018$ $07/2017$ $01/2017$ $07/2016$ $01/2015$ $05-07/2014$ $2012/2013$ $12/2012$

Teaching

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-Calculus II at Columbia University,	Fall 2018
-Teaching assistant for lnear algebra at MIT,	2016/2017
-Teaching assistant for mathematiques I at Paris 7	Fall 2013

Language

French (native), English (fluent), Spanish (proficient)