

Curriculum Vitae

1 Personal Details

- Name: Stijn Nevens
- Date of Birth: 08/03/1979
- Nationality: Belgian
- Address and telephone: on demand via email
- Email: curriculum.vitae@parsprototo.org
- Website: www.parsprototo.org

2 Work Experience

- 03/2016-present: Principal Investigator & Project Manager for the SIMBA satellite. Head of an international collaboration. Development, build, launch and exploitation of a satellite carrying a scientific payload.
- 03/2015-present: Team leader & researcher at the Royal Meteorological Institute. Research, development, building and exploitation of space borne and ground based absolute radiometers for solar irradiance measurements.
- 02/2010-03/2015: Researcher at the Royal Meteorological Institute. Research, development, implementation and deployment of aerosol related algorithms at the Satellite Application Facility on Climate Monitoring (CM-SAF) and Geostationary Earth Radiation Budget (GERB) team.
- 10/2008-01/2010: quantitative analyst at the risk modeling group of KBC. Research, development and analysis on different topics including: risk management, foreign exchange (FX) derivatives, interest rate (IR) derivatives, credit derivatives, credit models and funding/liquidity.
- 02/2007-09/2008: quantitative analyst at the market risk group of KBC. Development and implementation (C++) of pricing tools, focussed on FX options. Ad hoc analysis of FX related subjects. Streamlining the development process of the in house built code.
- 10/2005-09/2006: BAP at the VUB. Ph.D. research in theoretical high energy physics (string theory).

- 10/2001-09/2005: aspirant FWO affiliated with the VUB.
Ph.D. research in theoretical high energy physics (string theory).
- 07/2001-09/2001: summer student at CERN.
Research in experimental high energy physics (TileCal, part of ATLAS).

3 Education

- 22/09/2006: Ph.D. in physics (greatest distinction, VUB).
Thesis: Higher Derivative Corrections to the Abelian Born-Infeld Action using Superspace Methods, [hep-th/0611027](https://arxiv.org/abs/hep-th/0611027), available on the web:
<http://www.parsprototo.org/Files/PhDThesis.pdf>
- 10/1997-06/2001: master in physics (great distinction, VUB).
Title of the dissertation: Open strings in constant non-abelian backgrounds.

4 Computer-knowledge

- Languages: C , C++ , Python, Mathematica, Matlab and \LaTeX .
- OS: Mac Os X, Unix, Linux and Windows.
- Most of the common application software and hardware.

5 Languages

- Dutch: mother-tongue.
- English: excellent reading, writing and conversation skills.
- French: very good conversation and reading skills and good writing skills.
- German and Spanish: limited conversation and reading skills.

6 Publications

- S. Dewitte and S. Nevens, *The Total Solar Irradiance Climate Data Record*, *The Astrophysical Journal*, 10/2016, **830:25**.
- M. Meftah, A. Chevalier, C. Conscience and S. Nevens, *Total solar irradiance as measured by the SOVAP radiometer onboard PICARD*, *Journal of Space Weather and Space Climate*, 09/2016 **6(A34)**.

- I. Decoster, N. Clerbaux, E. Baudrez, S. Dewitte, A. Ipe, S. Nevens, A. Velazquez Blazquez and J. Cornelis, *Spectral Aging Model Applied to Meteosat First Generation Visible Band*, *Remote Sensing*, 02/2014 **6** 2534-2571.
- I. Decoster, N. Clerbaux, Y. M. Govaerts, E. Baudrez, S. Dewitte, A. Ipe, S. Nevens, A. Velazquez Blazquez and J. Cornelis, *Evidence of pre-launch characterization problem of Meteosat-7 visible spectral response*, *Remote Sensing Letters*, 10/2013 **4(10)** 1008-1017.
- S. Dewitte, N. Clerbaux, A. Ipe, A. Velazquez Blazquez, E. Baudrez, S. Nevens and I. Decoster, *Climate Monitoring with Earth Radiation Budget Measurements, Conference proceedings: International Radiation Symposium on Radiation Processes* **1531**
- I. Decoster, N. Clerbaux, E. Baudrez, S. Dewitte, A. Ipe, S. Nevens, A. Velazquez Blazquez and J. Cornelis, *A Spectral Aging Model for the Meteosat-7 Visible Band*, *Journal of Atmospheric and Oceanic Technology*, 03/2013 **30(3)** 496-509.
- S. Nevens, *On the Impact of Funding Cost on the Present Value of Future Cash Flows*, KBC internal paper 2009.
- S. Nevens and D. Vanden Abeele, *Incorporating Foreign Exchange Risk in Credit Risk Models and Credit Derivatives*, KBC internal paper 2009.
- S. Nevens, *Higher Derivative Corrections to the Abelian Born-Infeld Action using Superspace Methods*, Ph.D. thesis, [hep-th/0611027](#).
- S. Nevens, A. Sevrin, W. Troost and A. Wijns, *Derivative corrections to the Born-Infeld action through beta-function calculations in N=2 boundary superspace*, *J. High Energy Phys.* **0608** (2006) 086, [hep-th/0606255](#).
- A. Keurentjes, P. Koerber, S. Nevens, A. Sevrin and A. Wijns, *Towards an Effective Action for D-Branes*, *Fortschritte der Physik* **53** (2005) 599, [hep-th/0412271](#).
- P. Koerber, S. Nevens and A. Sevrin, *Supersymmetric non-linear sigma-models with boundaries revisited*, *J. High Energy Phys.* **0311** (2003) 066, [hep-th/0309229](#).