

# 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](mailto:curriculum.vitae@parsprototo.org)
- Website and weblog: [www.parsprototo.org](http://www.parsprototo.org)

## 2 Work Experience

- 02/2010-present: Researcher at the [Royal Meteorologic Institute of Belgium](#).  
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](#) , 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 Other Experience

- 09/2007-06/2008: organizer and participant of a small study group on selected topics in computer science.
- 2005: organisation of the first [Modave Summer School in Mathematical Physics](#).
- 10/2001-09/2006: teaching assistant for the course “Maxwell-Lorentz Theory and Special Relativity”.

### 5 Computer-knowledge

- Languages: C , C++ , Python, Lisp/Scheme, Java, Fortran, Bash, Mathematica, Matlab and  $\text{\LaTeX}$ .
- OS: Mac Os X (Server), Unix, Linux and Windows.
- Most of the common application software and hardware.
- Specific: Subversion, Doxygen, Kdevelop, Xcode & Sun Studio.

### 6 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.

## 7 Interests

- Cooking for small groups of friends or family and dining out.
- Roasting coffee and making espresso.
- Sports: running, swimming, squash, wall-climbing and biking.
- Vintage HiFi and listening to music at home and at concerts.

## 8 Publications

- 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](#).

## 9 Talks an Posters

- 11/05/2010: STCE Aerosol Workshop, Royal Observatory of Belgium, Brussels  
Talk: [Aerosol detection with the SEVIRI visible channels](#)
- 25/11/2010: ESSC Remote Sensing workshop, VUB, Brussels (Belgium)  
Talk: [Aerosol Optical Depth Retrieval from Geostationary Satellites](#)
- 07/09/2010: 3rd CM-SAF User Workshop, Rostock (Germany)  
Talk: [Detection of aerosols and other climatological effects by remote sensing using GERB-SEVIRI](#)
- 21/10/2004: Theoretical Particle Physics Joint seminars, ULB, Brussels (Belgium)  
Talk: Statistical interpretation of the Bekenstein entropy from the states of a black hole. Plenary talk for a working group I organised.

- 28/10/2003: Centre for Theoretical Physics, RUG, Groningen (The Netherlands)  
Talk: (Super)models on the Edge
- 05/02/2003 and 12/02/2003: ITF, KUL, Leuven (Belgium)  
Talk: A K-theory primer, part I+II