Joris Labie

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Eikelbosstraat 8, 3940 Hechtel-Eksel

EDUCATION

KU LEUVEN
MSc in Physics - Theoretical Physics
June 2016 | Leuven, Belgium

HASSELT UNIVERSITY
BSc in Physics, Cum Laude
Grad. Jun 2013 | Hasselt, Belgium

WICO CAMPUS TIO
Grad. June 2009 | Overpelt, Belgium

LINKS

Github:// **labiej**
LinkedIn:// **jorislabie**

RELEVANT COURSEWORK

GRADUATE
Molecular Dynamics simulations
Monte Carlo simulations
Intro to parallel computing (BSP model)

UNDERGRADUATE
Projects include:
Characterising Wind tunnel flow
Detecting colours using solar cells

SKILLS

PROGRAMMING
C • Matlab • LaTeX • HTML • CSS • PHP
LabVIew • Javascript • MySQL • Bash
R • Node.js • Git
Various javascript frameworks including jQuery, React and knockout

OTHER; PC-RELATED
GNUplot
MS Office and open-source alternatives
Several Computer Algebra Systems (Mathematica etc.)
Troubleshooting server issues

LANGUAGES

Dutch	Native
English	Fluent (oral + writing)
French	Notions

EXPERIENCE

SCANA NOLIKO Factory worker
Summer breaks in period 2012 - 2015 | Bree, Belgium
- Attention to strict health and safety codes
- On-the-spot troubleshooting prior to noticing technical support
- Gradually increasing responsibility, fully managing an entire production line in 2014 while working 12 hour weekend shifts

JAN DE RIJCK Administration in transport company
2011 - April 2012 | Beringen, Belgium
- Sorting of backlog freight manifests
- Planning routes for delivery and communication with both truckers, headman of the warehouse and potential third party transport companies
- Maintenance of trucks, filling coolant and washer fluid

HASSELT UNIVERSITY Junior Lab assistant
September 2011 | Hasselt, Belgium
- Undergraduate students are given the chance to work in the physics labs
- First an experiment was optimised both the hardware and software got improved (laser doppler anemometry)
- The second task was to prepare a new experiment for the following year, a lab text was written

RESEARCH

HUNTING FOR SIMPLE DE SITTER VACUA IN STRING THEORY
Masters Thesis
Oct. 2015 – Jun. 2016 | Leuven, Belgium
String theory is a candidate for a so-called theory of quantum gravity. The ultimate goal of such a theory is to unify the physics of particles at very small length scales with the physics governing our universe at the largest possible length scale. One of the big conundrums of string theory is whether it can describe a universe resembling ours. During the year long thesis project I looked for solution within the framework of string theory that looks like our universe. To do this we examined a small subset of models in the simplest settings that might allow such a solution. The result was negative, for these simple models which are quite restricted there aren't any solutions resembling our universe on cosmological scales.

OSMOSIS ON A LATTICE Masters project
Feb 2014 – May 2014 | Leuven, Belgium
Together with Philip Ruijten I investigated osmosis in a non-equilibrium set-up. This was achieved by replacing the classical point particles by dimers and using specific rates in a lattice gas model. No new physics was found although it did seem to contradict with earlier work.

INTERESTS

Amateur football
Youth Movement in my hometown
Reading books, mostly fantasy
Various TV shows and movies
Discovering new music both online and at festivals