

Simon Sels

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Education

- 2013 – 2018** **PhD in Science, Experimental Nuclear Physics**
IWT- Strategic Research grant
University of Leuven (KU Leuven) –Leuven, Belgium
- Thesis Title: *“In-source laser ionization spectroscopy of Mercury and commissioning of an ion-beam cooler for IGLIS.”*
 - Promotor: *Piet Van Duppen*
- 2011 – 2013** **Master in Science, Nuclear Physics**
University of Leuven (KU Leuven) – Leuven, Belgium
- Erasmus exchange host institute: **University of York – York, United Kingdom**
 - Thesis Title: *“Beta-delayed fission and alpha-decay spectroscopy of ^{194,196}Astatine”.*
 - Promotor: *Piet Van Duppen*
- 2008 – 2011** **Bachelor in Physics, minor in Mathematics**
University of Leuven (KU Leuven) –Leuven, Belgium

Work Experience

- 2013 – 2018** **PhD researcher at KU Leuven**
University of Leuven (KU Leuven) – Leuven, Belgium
- Worked effectively in team in a competitive international environment
 - Co-author of multiple top-level scientific papers
 - Skilled at presenting work to others (Presentation award at EBSS2016 conference)
 - Strong will to learn, be taught and improve myself as well as educate others
- 2018 – present** **Scientific researcher (Fellow) at CERN**
Centre Europeen pour Recherche Nucleaire (CERN) – Geneva, Switzerland
- Scientist abroad at the forefront of research in one of the world’s best laboratories
 - Mentoring and managing PhD, master and bachelor students with the goal of letting them reach their scientific and personal career goals
 - First author of several scientific publication and invited speaker to multiple international conferences

Scientific Publications

- 2013 - present** Author of several scientific publications in leading journals.
An up-to-date list can be found here on my ORCID or RG page (see contacts)
- Highlighted** R.Ferrer et al., Nature Comm. 8 14520 (2017) : [Towards high-resolution laser ionization spectroscopy of the heaviest elements in supersonic gas expansion](#)
B.A Marsh, T. Day Goodacre, S. Sels, Y. Tsunoda et al., Nature Physics 14 1163-1167 (2018):
[Characterization of the shape-staggering effect in mercury nuclei](#)
S. Sels et al. , Physical Review C 99 044306 (2019):
[Shape staggering of midshell mercury isotopes from in-source laser spectroscopy compared with density-functional-theory and Monte Carlo shell-model calculations](#)
S. Sels et al., Nucl Instr and Meth B., DOI 10.1016/j.nimb.2019.04.076 (2019)
[First steps in the development of the Multi Ion Reflection Apparatus for Collinear Laser Spectroscopy](#)

Extra

- Languages** Dutch (mother tongue), English (Fluent), French (good), German (basic)
- Professional Grant** Obtained IWT scholarship from Institute for Innovation through Science and Technology
- Award** Awarded “Best presentation prize” at EBSS2016 conference, Michigan State University
- Guiding** Taught physics to bachelor students in bio-engineering
Mentored a “Belgian Physical Society best thesis 2016” award-winning master thesis and guided starting PhD students in their thesis work
- Involvements** Representative of BAP-personnel members in Council of Faculty of Science
- Programming** Python, C++ (good) Java, Lua (basic)
- Hobbies**
- Youth Organization Head leader of Scouting group with > 400 members and > 50 leaders for 3 years
Financial manager of Scouting group for 6 years
Member of Youth Council in local community Ranst for 3 years
- Sports Field Hockey player (Co-captain), marathon runner, road cyclist
- Student Organization Member of student organization for 4 years
Treasurer and responsible for event organization both for 1 year
- Music Percussionist in symphony orchestra and drummer for >15 years