



Martin Venhart

Academic positions held

2017 →, Slovak Academy of Sciences
Member of Presidium (elected position)

2013 →, Institute of Physics, Slovak Academy of Sciences
Head of Department of Nuclear Physics

2010 →, Institute of Physics, Slovak Academy of Sciences
Research scientist

2008 - 2010, Katholieke Universiteit Leuven, Belgium
Post-doctoral researcher, Instituut voor Kern-en Stralingsfysica

Contact information

Slovak Academy of Sciences
Štefánikova 45
814 38 Bratislava
Slovakia, European Union

+421 910 828 177

mvenhart@cern.ch, martin.venhart@savba.sk

www.linkedin.com/in/martin-venhart-1647219

www.facebook.com/martin.venhart

orcid.org/0000-0003-2362-7079

Membership in committees and boards

2015 - 2018, Scientific council, Institute of Physics, Slovak Academy of Sciences

2017 →, Scientific council, Slovak Academy of Sciences

2018 →, Faculty of Material Science and Technology, Slovak University of Technology

2019 →, Advanced Technologies Research Institute, Trnava

2013 →, ISOLDE collaboration committee (CERN)

2014 →, Nuclear Physics European Collaboration Committee
representative of Slovak Republic

2013 →, Advisory board for collaboration of Slovakia with CERN
secretary, representative for non-LHC experiments

Education

PhD.
Experimental nuclear physics
Comenius University, Bratislava
2004 - 2008

Mgr. (MSc. equivalent)
Nuclear and subnuclear physics
Comenius University, Bratislava
1999 - 2004

Publications

89 publications in referred journals
1500 citations registered in WoS
H-index = 23

Collaboration

ISOLDE (CERN)
University of Jyväskylä (Finland)
iThemba Labs (South Africa)
University of Liverpool (UK)
University of Warsaw (Poland)
University of Guelph (Canada)

Major achievements

Leader of negotiations on joining the ISOLDE collaboration
Full membership of Slovak Republic started in 2016

Leader of negotiations on joining the Nuclear Physics European
Collaboration Committee
Full membership of Slovak Republic started in 2019

Establishment of new Tandetron laboratory in Piešťany
Leader of the program, first beam in September 2016

Spokesperson of experiments IS521 (CERN), JR115 and S17 (both
University of Jyväskylä), and PR235 (iThemba Labs)

Development and commissioning of TATRA spectrometer at
ISOLDE (CERN)

Professional interests

Gamma-ray spectroscopy
Conversion-electron spectroscopy
Nuclear structure
Shape coexistence in nuclei
Tape transportation systems
Particle-core coupling in nuclei
GEANT4 simulations

Research grants

Energy of symmetry in structure of nuclear matter

Principal investigator
Slovak Research and Development Agency
2012 - 2015, 203 750 €

Structure of atomic nuclei

Principal investigator
Slovak Research and Development Agency
2016 - 2020, 250 000 €

Shape coexistence in heavy nuclei

Principal investigator
Slovak grant agency VEGA
2014 - 2016, 21 000 €

Investigation of nuclear structure and reactions using Tandetron® accelerator

Principal investigator
Slovak grant agency VEGA
2017 - 2019, 51 000 €

Awards

2012 Slovak Physical Society
Prize for young physicist

2014 President of Slovakia
Congratulation for successful completion of the IS521 experiment (CERN)

Support of students

In 2015 - 2019 summer students from Spain, UK, Belgium, France and Brazil trained (typically several months stays) at Institute of Physics

Students of high schools from Slovakia are regularly trained at Institute of Physics

Supervision of students

PhD. students

Institute of Physics, Slovak Academy of Sciences
2015 - 2019, Matúš Sedlák
2014 →, Robert Urban
2016 →, Matúš Balogh
2017 →, Jakub Krajňák
2018 →, Gulnur Kantay

University of Liverpool (co-supervision)

2012 - 2015, Fuad A. Ali
2013 - 2017, Fay Wearing

Master students

Comenius University, Bratislava (external supervisor)
2015 - 2017, Jakub Krajňák
2014 - 2016, Matúš Balogh
2017 - 2019, Andrej Špaček
2018 →, Natália Džalaiová

Katholieke Universiteit Leuven

2009 - 2010, Marijke Keupers

Bachelor students (all at Comenius University)

2012 - 2014, Matúš Balogh
2013 - 2015, Jakub Krajňák
2013 - 2016, Lukáš Holub
2015 - 2017, Andrej Špaček
2016 - 2017, Jakub Lietavec
2015 - 2019, Monika Bírová
2019 →, Erika Jajčišinová

Supervision of post-docs

Institute of Physics, Slovak Academy of Sciences
2015 - 2018, Pareshkumar Prajapati
2018 → Andrej Herzán

Conferences organized (as chairman)

ISTROS 2013, 2015, 2017, and 2019

Častá-Papiernička, Slovakia
International conference with approximately 50 participants
2017 edition reported in Nuclear Physics News

AWG 2011, and SWG 2015

Častá-Papiernička, Slovakia
International school on GEANT4 simulations in nuclear physics
With support of GEANT4 collaboration (CERN)
Approximately 50 participants

SWG 2013

Somerset West, Cape Town, South Africa
International school on GEANT4 simulations in nuclear physics
With support of GEANT4 collaboration (CERN)
Approximately 50 participants, mostly from Africa