



SUHONEN, JOUNI

Honorary Member, FINLAND

Professor, physicist at Jyväskylä University, Finland, Department of Physics. **Areas of expertise:** nuclear structures, theoretical nuclear physics, development of schematic and realistic models of nuclear structures, and their applications in nuclear spectroscopy and nuclear processes of degradation - alpha and beta decay - muon capture, double beta decay and exotic weak decompositions, mechanics, quantum mechanics, nuclear structure, nuclear disintegrations.

References: http://www.researchgate.net/profile/Jouni_Suhonen/

I. Academic degrees • Bachelor of Science, 1979, and Master of Science (with highest marks), 1981, Department of Physics, University of Jyväskylä, Finland; • Separate degree in mathematics (with highest marks), 1981, Department of Mathematics, University of Jyväskylä, Finland; • Licentiate of Philosophy, 1984, Department of Physics, University of Jyväskylä, Finland; Doctor of Philosophy with the thesis: *Extended Phonon Projection Model for Nuclear Collective Motion*, supervised by Prof. P. O. Lipas, examiner: Dr. P. Van Isacker, Gent, Belgium. Thesis defended successfully on May 18, 1985 at the University of Jyväskylä, Finland.

II. Present position: Since August 1, 1998 professor of theoretical physics, Department of Physics, University of Jyväskylä

III. Supervised Ph.D. Theses: - Jussi Toivanen, February 1998; - Teemu Siiskonen, December 1999; - Tuomas Hjelt, May 2000; Matias Aunola, April 2001; Eero Holmlund, December 2004; Markus Kortelainen, May 2006; Jenni Kotila, June 2008; Sami Peltonen, June 2009; Mika Mustonen, May 2010; Emanuel Ydrefors, March 2012; - Currently supervising 3 Ph.D. students.

IV. Tasks in doctoral training: Member of the Board of the Particle and Nuclear Physics Graduate School (Helsinki–Jyväskylä–Oulu) 1998-2007; Organizer of the workshop series Workshop on Calculation of Double-beta-decay Matrix Elements, MEDEX, in Prague, Czech Republic, in 1997, 1999, 2001, 2003, 2005, 2007, 2009, 2011, 2013. This workshop series is specifically directed to the young generation of nuclear/neutrino physicists; Several lecture courses on theoretical nuclear physics based on my lecture notes and eventually my textbook *From Nucleons to Nucleus: Concepts of Microscopic Nuclear Theory* (Springer, Berlin, 2007, 650 pages).

V. Invited talks and conference organization • About 100 international invited talks out of which 30 plenary or review; member in the organization of more than 20 conferences and workshops, latest in 2015: MEDEX'15, June 2015, Prague, Czech Republic and NDM15 (Neutrinos and Dark Matter in Nuclear Physics), June 2015, Jyväskylä, Finland;

VI. External funding - numerous research projects financed by the Academy of Finland, NorFA (Nordic Institute for Advanced Studies), INTAS, etc. Coordination of sub-projects for the EU FP6 framework project ILIAS (Integrated Large Infrastructures for Astroparticle Science). Presently theory Coordinator in the Finnish Centre of Excellence Programme Nuclear and Accelerator Based Programme at JYFL (financed by the Academy of Finland), 2006-2011 and 2012-2017.

VII. Publications: 1 textbook *From Nucleons to Nucleus: Concepts of Microscopic Nuclear Theory* (Springer, Berlin, 2007, 650 pages); about 230 published articles in peer-reviewed journals (40 Letters); Hirsch index 39 (Thomson Reuters Web of Science)

VIII. Miscellaneous - Fellowship of the Alexander von Humboldt Foundation for research at the Institute of Theoretical Physics of the University of Tübingen, Germany, 1987-1988, supervisor: Prof. Dr. Amand Faessler; member of the Finnish Physical Society; member of the Executive Board of the Finnish Physical Society (2002-2004); member of the Executive Board of the Jyväskylä Accelerator Laboratory; member of the Board of the Particle and Nuclear Physics Graduate School (Helsinki–Jyväskylä–Oulu) 1998-2007; member of the CERN Isotope and Neutron Time-of-flight Experiments Committee (INTC) 2000-2004, for the evaluation of research

proposals to the Isolde and nTOF facilities at CERN; member of the Steering Committee of the CUPP (Centre for Underground Physics in Pyhasalmi) project 2004-2007; Scientific Advisor for the Israel Science Foundation, the Grant Agency of the Czech Republic, the Austrian Science Fund, the Slovak Research and Development Agency, the US DOE (Department of Energy), etc. in reviewing research proposals; external evaluator of several Ph.D. theses, and research positions; member of the International Advisory Committees of several conferences; member of the INTAS experts database, 1999-2005, for the evaluation of research proposals in the INTAS programme of the EU; panel member of the EU-RTN evaluators, Brussels, September 11-14, 2001; panel member of the EU FP6 Marie-Curie RTN evaluators, Brussels, March 2-5, 2004; contractor and member of the Governing Council of the EU-FP 6 Integrated Infrastructure Initiative Consortium ILIAS (Integrated Large Infrastructures for Astroparticle Science) 2004-2009; contractor and task coordinator of the EU-FP6 Joint Research Activities Network IDEA (Integrated Double-beta-decay European Activities) 2004-2009; task Coordinator in the Finnish Centre of Excellence Programme Nuclear and Condensed Matter Programme at JYFL (financed by the Academy of Finland), 2000-2005; theory coordinator in the Finnish Centre of Excellence Programme Nuclear and Accelerator Based Programme at JYFL (financed by the Academy of Finland), 2006-2011 and 2012-2017.

Award of the Physics Lecturer of the Year in 1992, 1994, 1999, 2008, 2012 and 2013 (elected by the physics students of the University of Jyväskylä).

Member of the Academy of Romanian Scientists, 2009.

Member of the Editorial Board of *Annals of the Academy of Romanian Scientists*, 2009.

Evaluator and panel member of the Swedish Research Council, 2012, 2013, 2014.

Individual Ordinary Member of the Nuclear Physics Division Board of the European Physical Society (EPS), 2014.

Referee for the journals *J. Phys. G: Nucl. Part. Phys.*, *Phys. Lett. B*, *Eur. Phys. J. A*, *Phys. Rev. C*, *Phys. Rev. D*, *Phys. Rev. Lett.*, *Asropart. Phys.*, *Physica Scripta*, *Nucl. Phys. A*, *Annalen der Physik*, *Adv. in High Energy Physics*, *Mod. Phys. Lett. A*, *Can. J. Phys.* 3.