

Curriculum Vitae, Prof. Sijbrand Jan de Jong



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Profile

Acclaimed for his breadth of knowledge, Professor Sijbrand de Jong, has taught introductory high-energy physics courses at Radboud University Nijmegen, the Netherlands since 1998, and is the founding director of Radboud Pre-University College of Science that connects university research to secondary school teaching. During his research De Jong has worked on proton structure function parameterisations and compared these with data. Around 1988, he participated in the design of a novel multiprocessor system for the ZEUS calorimeter trigger that made extremely rapid pattern recognition decisions. In the 90's he was involved in the design and implementation of the complete control and monitoring system of the OPAL micro-vertex detector. At LEP, until the late 90's, and at the Tevatron until 2012, he was deeply involved in the hunt for the Higgs. De Jong is presently active in astroparticle physics and involved in the development of the new technique of radio detection of cosmic rays, and in the upgrade of the Pierre Auger Observatory.

CERN, the European Organisation for Nuclear Research, and its main area of research in particle physics has, since his student days, been of particular interest to De Jong. In 1984 he participated in the CERN Summer Student Programme. In 1990 De Jong became a Fellow at CERN, and has worked on the OPAL detector while resident at CERN until 1998. From 2004 until 2008 he was a member of the Large Hadron Collider Committee at CERN. Since 2010 he is a delegate to the CERN Council. Furthermore, he was the Dutch representative in the Council Strategy Groups in 2006 and 2013 and chaired the working group on governance in 2013. Sijbrand de Jong is well positioned in understanding CERN in its entirety.

Equipped with verifiable managerial skills, De Jong has overseen a number of large projects. He was a 10-year member of the FOM (Physics Funding Agency) Board. During his three posts as director at Radboud, he completely reorganised the curriculum, making the School of Physics and Astronomy one of the best schools on these subjects. Lauded in national evaluations, it was equally highly rated by an international committee, declaring it comparable to the top 10 US schools of Physics and Astronomy. In addition, De Jong is the founding director of the Institute for Mathematics, Astrophysics and Particle Physics (IMAPP), which came formally into existence in 2005, and is the first Dutch institute to integrate mathematics, fundamental physics and astronomy research.

He has succeeded in streamlining and unifying interaction between the science faculty and secondary schools in the Nijmegen region. He has motivated and inspired academics, high school teachers and students, establishing fruitful collaboration between schools and the university. Moreover, he is the initiator and project leader of a cluster for NLT, the secondary school science integration exam course, gathering some 300 secondary school pupils once weekly to follow courses at the university.

As well as having been chosen Nijmegen Citizen of the Year in 2009, Sijbrand de Jong was awarded the 2009 Academic Year Award for the dissemination of science to the general public with the project: Cosmic Sensation, transforming cosmic ray signals into dance music and surround video.

Aside from his native Dutch, De Jong is fluent in English and has working knowledge of French and German. He is associate editor of the European Physical Journal C.

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Professional Positions

- 1998 – present **Radboud University Nijmegen, the Netherlands**
Full Professor & Staff Member at Nikhef
- 2010 – present **CERN Council**
Netherlands Scientific Delegate
- 2011 – 2015 **Radboud Pre-University College of Science, the Netherlands**
Director
- 2005 – 2011 **Institute for Mathematics, Astrophysics and Particle Physics, Radboud University Nijmegen, the Netherlands**
Director
- 2001 – 2010 **FOM – Dutch physics funding agency**
Board member
- 2000 – 2005 **University of Nijmegen, the Netherlands**
Head of Experimental High Energy Physics Department
- 2000 – 2003 **University of Nijmegen, the Netherlands**
Director of Education, Chair of Examination Committee, Vice-Chair of Physics Department

Professional Experience

- 2012 – present **Dutch Cosmic Ray Group in Pierre Auger Collaboration**
Programme Leader
 - Radio detection of cosmic rays, surface detector composition studies
- 2012 – 2013 **European Strategy Group**
Netherlands Representative
 - Chair of Working Group 2 on governance issues
 - Member of Working Group 5 on communication
- 2011 **Dutch Physical Society**
 - Chair of ad hoc strategy committee
- 2005 – 2006 **Council Strategy Group**
Netherlands Representative
- 1998 – 2012 **Dutch group in Dzero collaboration**
Programme Leader
 - Silicon micro-vertex detector, b-tagging and tau-tagging, Higgs search

Awards

- 2009 Netherlands Academic Year Award
- 2010 Nijmegen Citizen of the Year Award
- 2015 Knight of the Order of the Netherlands Lion

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Professional Organisations

Member Dutch Physical Society

- Membership Subatomic Physics Division
- Vice-Chair Education and Communication Division
- 10-year editor monthly journal
- 6-year member governing board

Netherlands Society for promotion of Physics, Medicine & Surgery

The American Physical Society

- Membership Particles and Fields Division

Individual member European Physical Society

Associate Editor European Physics Journal C

Education

1990 University of Amsterdam, the Netherlands
PhD: Experimental Particle Physics

1986 University of Amsterdam, the Netherlands
MSc: Experimental Physics (cum laude)

Languages

Dutch: native speaker

English: fluent

French: working knowledge

German: working knowledge