Prof. Dr. Albert De Roeck
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Prof. Dr. Albert De Roeck is a senior research scientist and staff member of the largest particle physics laboratory in the world, CERN, located near Geneva, Switzerland. CERN is the home of the new particle accelerator: the Large Hadron Collider (LHC). De Roeck is also a professor at the University of Antwerp (Belgium) and a visiting professor at the University of California Davis, the British University in Cairo (Egypt) and NTU in Singapore. He obtained his PhD at the university of Antwerp on an experiment at CERN, studying the multi-particle dynamics in hadron-hadron interactions, by colliding meson beams on protons and nuclear targets. After his PhD, De Roeck spent 10 years at the German particle physics laboratory, DESY, where he and his team made very precise measurements of the quark and gluon structure of the proton, and performed precise tests of the strong force. At the end of the 90's his interest turned to the possibility to discover new physics at future particle colliders, in particular Supersymmetry and Extra Dimensions, and he returned to CERN. He first joined an experiment at the large electron-positron collider LEP, studying the strong force and searching for signals of new physics. Between 2000 and 2009 he played a significant role in the preparation of one of the experiments at the LHC: the Compact Muon Solenoid (CMS). De Roeck has become one the leaders in the CMS/LHC physics program and actively involved in physics analyses. De Roeck was also the deputy spokesperson of the CMS experiment in 2010 and 2011, was the convener of the Higgs search physics group in 2012 and 2013, and had a leading role in the discovery of that particle in July 2012. He joined the MoEDAL experiment in the search for monopoles. He is also a co-founder of the MilliQan experiment in search for particles with mini-charges at the LHC. At the LHC he is a leader of the long-lived particle search effort and involved in several new experiments such as SND@LHC and FPF.

In 2017 he became the leader of the neutrino physics group at CERN and is now also an active member in the DUNE and ICARUS experiments in the US and the T2K experiment in Japan.

He regularly gives seminars and lectures all over the world on the physics potential and results of the LHC project and experiments, and neutrino physics, and appears regularly in Television or Radio programs. His H-index at present is 199. In 2010 Prof.

De Roeck got a doctor honoris causa degree from the University of Helsinki, Finland. Co-author of more than 1900 scientific papers, as an experimentalist he also has also been collaborating closely and publishing with leading theorists of the field.

Prof. De Roeck is a contact for the CMS experiment to countries in the Middle East region and in South East Asia.

Publications:

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