INTERNATIONAL SOLVAY INSTITUTES BRUSSELS

SOLVAY COLLOQUIUM

Prof. Goran Senjanović

LMU, München, Germany

Neutrino: chronicles of an aloof protagonist

We give a brief account of the history of neutrino, and how this most aloof of all particles has shaped our search for a theory of fundamental interactions ever since it was conceived. We introduce the necessary concepts and phenomena in a non-technical language aimed at a physicist with some basic knowledge of quantum mechanics. It is argued that neutrino mass offers an ideal door into new physics and that the Large Hadron Collider could open that door. We show finally then that the Minimal Left-Right Symmetric model is a complete theory of the origin and nature of neutrino mass, with testable predictions at present and near future experiments. This is the theory that led originally to neutrino mass and the seesaw mechanism behind its smallness, but even more important, the theory that sheds light on a fundamental question that touches us all: the symmetry between left and right.

Tuesday 24 May 2022 at 4:00 P.M.

COFFEE AND TEA WILL BE SERVED AT 3:45 P.M IN FRONT OF THE SOLVAY ROOM

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website: www.solvayinstitutes.be