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Jeremiah Horrocks Public Lecture Series

Neutrino Oscillations: Past, present, and future
Professor Costas Andreopoulos

**Tuesday 7 June, 6.30pm | Harrington Lecture Theatre
University of Central Lancashire | Free entry**

Neutrinos are the most abundant massive particles in the universe, but they possess an ethereal nature that makes it notoriously difficult to detect them. Their properties allow us to probe new physics that might unravel the nature of dark matter and account for the observed matter-antimatter asymmetry in the Universe.

In this talk, Professor Costas Andreopoulos will describe the nature of the neutrino and review the fascinating experiments and long-standing experimental anomalies that led to the discovery and present understanding of neutrino oscillations. He will summarise the extraordinary new experiments currently under construction that, we hope, will cast ample new light on the neutrino over the next two decades.



Speaker: Professor Costas Andreopoulos holds a Chair in Experimental Particle Physics at the University of Liverpool and has been working on accelerator-based neutrino physics for the past 25 years. He is a co-recipient (with the T2Kcollaboraion) of the 2016 Breakthrough Prize in Fundamental Physics.

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