

Christos Touramanis

Professor of Experimental Particle Physics (2009)

Fellow of the Institute of Physics (2014)

Fellow of Advance HE (2020)

PROFESSIONAL CAREER

University of Liverpool, Academic staff, since 1997

CERN, Research Fellow, 1994-96

University of Liverpool, Postdoctoral R.A., 1992-93

EDUCATION

Aristotle University of Thessaloniki (PhD), 1987-92

Aristotle University of Thessaloniki (BSc), 1982-86

AWARDS & DISTINCTIONS

Breakthrough Prize in Fundamental Physics, 2016

CERN Scientific Associateship, 2017-18

STFC Advanced Research Fellowship, 1997-01

CERN PPE Fellowship, 1994-96

LEADERSHIP POSITIONS

Head of Department of Physics, UoL (150 staff), 2014-16

Leader (co-spokesperson) of CERN Experiment NP04, 2015-18

Lead Scientist of the DUNE APA Consortium (22 institutes), since 2018

Project Leader of T2K-UK (8 institutes, £15M), 2007-11

Founding Chair of the FAIR (Facility for Antiproton and Ion Research in Europe GmbH, Germany)

Experiments Cost Scrutiny Group, since 2017

Chair of the CERN LHC Resources Scrutiny Group, 2013-17

SCIENTIFIC HIGHLIGHTS

Lead analyst in the discovery of CP Violation in the B meson system by BABAR, which I announced at the EPS conference (Budapest, 07/2001). Our discovery led to the award of the 2008 Nobel Prize in Physics to Kobayashi and Maskawa. The announcement cites our paper, Phys.Rev.Lett. 89 (2002) 201802.

Analysis co-coordinator of T2K ND280 (2009-11). We made the first observation of muon-neutrinos oscillating to electron-neutrinos in 2011: Phys.Rev.Lett. 107 (2011) 041801; Phys.Rev.Lett. 112 (2014) 061802. For that discovery we were awarded the Breakthrough Prize in Fundamental Physics, 2016. In 2020 we published the first constraint on the matter–antimatter symmetry-violating phase in neutrino oscillations, *Nature* volume 580, pages339–344(2020), appearing on the issue cover.

Lead analyst in the most precise CPT and Quantum Mechanics tests with CPLEAR data, published with J. Ellis, N. Mavromatos and D. Nanopoulos: Phys.Lett. B364 (1995) 239-245, and the first direct observation of time reversal non-invariance in the neutral kaon system: Phys.Lett. B444 (1998) 43-51.

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PUBLICATIONS

732 papers in international refereed journals (Jan. 2021)

SCOPUS cit.: 32,987

SCOPUS h-index: 90

Google Scholar h-index: 127

COMMITTEES

CERN Upgrades Cost Group

CERN SPS Committee

STFC PP Grants Panel

IOP HEPP Group Committee

Council of the University of the Aegean

Scientific and Technical Council of DPhP/IRFU, CEA

IAC of the INPP, Demokritos

RESEARCH PROJECTS

DUNE (Fermilab, USA)

SBND (Fermilab, USA)

T2K (J-PARC, Japan)

BABAR (SLAC, USA)

CPLEAR (CERN, CH)

LAGUNA-LBNO (EU)

KM3NeT (EU)

MODES-SNM (EU)

ARIADNE (EU)

LANGUAGES

Greek, English, French