

# Christos Touramanis

Professor of Experimental Particle Physics (2009)

Fellow of the Institute of Physics (2014)

Fellow of Advance HE (2020)

University of Liverpool

Liverpool, L69 7ZE, U.K.

+447973247767

[c.touramanis@liverpool.ac.uk](mailto:c.touramanis@liverpool.ac.uk)

ORCID: 0000-0001-5191-2171

Scopus ID: 35228070900

## 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.



## PUBLICATIONS

753 papers in international refereed journals (Jan. 2023)

SCOPUS cit.: 39,314

SCOPUS h-index: 98

Google Scholar h-index: 137

## 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