



## Hirohisa A. Tanaka

Professor of Particle Physics and Astrophysics

### Bio

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#### BIO

Academic Appointments:

- Professor, SLAC, Stanford University, 2018
- Associate Professor/Professor University of Toronto, Department of Physics, 2015-2018
- Research Scientist/Principal Research Scientist, Institute of Particle Physics, 2007-2018
- Assistant/Associate Professor, University of British Columbia, 2007-2015
- Research Associate/Scholar, Princeton University, Department of Physics, 2003-2007

Other current roles:

- Technical Coordinator, DUNE Near Detector
- Co-convener: DUNE Near Detector Design Group
- Member, DUNE Co-spokesperson Election Committee

#### ACADEMIC APPOINTMENTS

- Professor, Particle Physics and Astrophysics

#### ADMINISTRATIVE APPOINTMENTS

- Director of Research, Fundamental Physics Directorate, (2018- present)

#### HONORS AND AWARDS

- Co-recipient, Breakthrough Prize in Fundamental Physics (2015)
- Invitation Fellow, Japan Society for the Promotion of Science (2009)
- Fellow, American Physical Society (2015)

#### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, LHC Experiments Committee, CERN (2023 - present)
- Member, Chair (2019-2023), Physics Advisory Committee, Fermilab (2014 - 2023)
- Member, Review Panel for Department of High Energy Physics, Tata Institute of Fundamental Research (2019 - 2019)
- Member, International Advisory Committee, International Conference on Neutrino Physics and Astrophysics (2016 - present)
- Member, Experimental Advisory Committee, SNOLAB (2009 - 2012)
- Member, Panel on Long Baseline Neutrino Experiments and Neutrino Factories, International Committee for Future Accelerators (2013 - 2017)

- Member, Five Year Plan Steering Committee, TRIUMF (2012 - 2013)
- Member, Long Range Planning Task Force, Institute of Particle Physics (2015 - 2015)
- Member, Planning and Policy Advisory Committee. Chair, Accelerator Subcommittee, TRIUMF (2017 - present)

## PROFESSIONAL EDUCATION

- PhD, Stanford University , Physics (2002)
- AB, Harvard University , Physics and Mathematics (1997)

## LINKS

- SLAC Neutrino Group: <https://web.slac.stanford.edu/neutrino/>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Particle physics and astrophysics, neutrino properties, dark matter

## Teaching

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### STANFORD ADVISEES

#### Doctoral Dissertation Reader (AC)

Emrys Peets

#### Postdoctoral Faculty Sponsor

Yifan Chen, Alkaid Cheng

#### Doctoral Dissertation Advisor (AC)

Zach Hulcher, Miriam Moore, Sam Young

## Publications

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### PUBLICATIONS

- **Neutrino Oscillation Experiments**

Tanaka, H. A., IOP  
IOP PUBLISHING LTD.2020

- **The Physics of the B Factories** *EUROPEAN PHYSICAL JOURNAL C*

Bevan, A. J., Golob, B., Mannel, T., Prell, S., Yabsley, B. D., Abe, K., Aihara, H., Anulli, F., Arnaud, N., Aushev, T., Beneke, M., Beringer, J., Bianchi, et al  
2014; 74 (11): I-898