



Tsung-Dao Lee Institute PhD Program in Physics and Astronomy

Focused on the biggest questions in our Universe

Accelerator
Large-Scale Structure of The Universe
Astrophysics
Black Hole
Laboratory Astrophysics
Physics Beyond the Standard Model
Multi-Messenger Astronomy
Gravitational Wave **Muon** Exoplanet
Neutrino **Dark Matter**
Gravitational Lens **Dark Energy**
Quantum Computing **Condensed Matter**
Anyon Quantum Information
Topological Effect in Condensed Matter
2024-25 Admission **Majorana**
Complex System

Tsung-Dao Lee Ph.D. Fellowship Program

The Program is one of three national elite initiatives for physics graduate students, offering annual sponsorships up to **¥ 140K-180K (\$19.7K-25.3K)**, global research opportunities, and rigorous academic training.

Fall 2026 Admission

Application Period: October 2025 – May 31, 2026

***Early application is strongly encouraged, as positions and scholarships are offered on a rolling basis.

Fall 2027 Admission

Application Period: June 2026 – May 2027

Process

Identify your prospective supervisor → Submit your application → Attend interview → Await results → TDLI Pre-offer Letter → SJTU Offer of Admission

***Prospective supervisors may also be contacted for visiting student or internship opportunities.

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US News Ranking of
SJTU Physics

44

QS Ranking
SJTU Physics & Astronomy

40%

Foreign Faculty

16

Countries & Regions
Our People Come From

Research Focused

One year of coursework. Research from Year Two.

Research involving int'l cooperation
highly encouraged & supported

Our scholars are trained and connected
from leading academic institutions.

Reach out to our supervisors



Three Interconnected
Research Divisions (including
theory & experiment)

- > Astronomy and Astrophysics
- > Condensed Matter Physics
- > Particle and Nuclear Physics

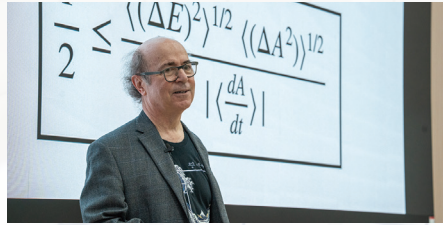
Consistently Deliver
High-Impact Research

In 2024, we published **357** SCI-indexed papers, with **137** of them appearing in top-tier journals such as Nature, and PRL.

Dynamic Events

In 2024, we hosted **254** Seminars and Colloquiums, **20** Workshops and Conferences, and organized **7** academic schools.

Explore further at <https://tdli.sjtu.edu.cn/EN/events/all>



Lecture Series by TDLI Chief Scientist, Prof. Frank Wilczek



The 32nd Texas Symposium on Relativistic Astrophysics

International Cooperation for Global Opportunities

With active engagement in international collaborations, we offer enriching exchange opportunities across the globe.

Explore TDLI Year-Round International Research Internship Program



ATLAS Experiment at CERN

Perimeter Institute for Theoretical Physics

IAS MIT UMASS

Weizmann Institute of Science

TDLI at Shanghai

IPMU

J-PARC in Japan

Event Horizon Telescope (EHT) Collaboration

Quantum Connections in Sweden-15 Summer School

Muon g-2 experiment at Fermilab

NBI NORDITA KTH ETH Zurich Aix-Marseille Univ.

Quarks u c t d s b Forces g W Z γ Leptons ν μ τ ν e ν μ τ ν e ν μ τ ν e

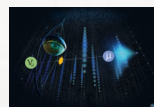
HIGGS AT 10

Major Research Infrastructure



Research Platforms @ TDLI, Shanghai

- > Laboratory Astrophysics Platform (Magnetic field: 10^{10} G, Electric field: 10^{13} V/cm)
- > Topological Materials Platform (STM real-space resolution > 0.5 nm)
- > High-Performance Computing Platform (7 PFLOPS)



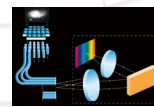
Explore the origin of high-energy cosmic rays via neutrinos @ Western Pacific Ocean

- > TROPICAL DEEP-sea Neutrino Telescope (TRIDENT)
- > 4km*4km*0.5 km Cherenkov Telescope Array at 3500m depth
- > Capture high-energy cosmic neutrinos



Search for dark matter and study fundamental properties of neutrinos @Jinping, Sichuan

- > Particle and Astrophysical Xenon Experiments (PandaX)
- > Multi-ton-scale ultralow background liquid xenon detector
- > 2400m Deep underground lab (Muon flux < 10^{-10} /s/cm²)



Explore the nature of dark matter and dark energy @ Lenghu, Qinghai

- > Jiaotong University Spectroscopic Telescope (JUST)
- > A diameter of 4.4m, dual-focus telescope array

Contacts

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