Apply Now!

"The Largest and The Smallest" 2024 SJTU Physics International

Summer School "The Largest and the Smallest" Physics International Summer

School, organized by Zhiyuan College and Tsung Dao Lee Institute ("TDLI"), Shanghai Jiao Tong University ("SJTU") will be held between July 8th and 18th, 2024. The Summer School mainly aims at providing undergraduate students with strong passion in physics from China and overseas universities with a platform to gain experience with cutting-edge research and build friendships among their peers.

Group A 32-hour A series of research frontier talks course projects

Campus & city tours

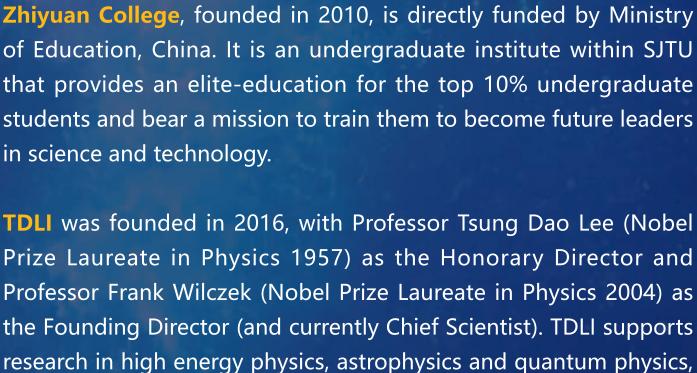
Chinese culture activities

webpage at: http://crosscultural.mikecrm.com/HbJ7iSH Explore the limits of nature, and expand the boundaries of

experience!

knowledge! Apply now and join with us for an unprecedented

展认知疆域



institute in the world. The current Director is Professor Jie Zhang, a

prominent physicist, the former President of SJTU and the Founding

Date

Location Tsung-Dao Lee Institute 1 Lisuo Road, Pudong New Area, Shanghai Language English

Course Description

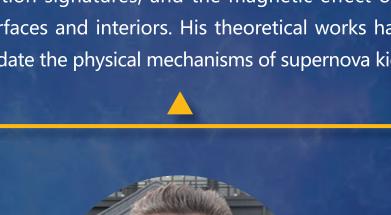
The Largest and the Smallest represent the two extremes of the

universe, one being the vast cosmos and the other being the tiny

fundamental particles. Although they are vastly different, they are

intricately connected to some extent. To understand the essence of this connection, a deep understanding of the fundamental physical laws of the universe is required. This event will revolve around the

Instructors



Dong Lai

T. D. Lee Chair Professor

The award recognizes "outstanding research in theoretical nuclear physics," and is considered one of the profession's most prestigious awards. He has co-authored over 200 scientific articles, focuses on the intersection of nuclear and particle physics with cosmology. "Where does matter come from, and how does nature put it together," he asks. "And why does the universe have more matter in it than anti-matter?" The answers to those questions address a fundamental question about the universe: how did we get here?

Michael Ramsey-Musolf

T. D. Lee Chair Professor

TDLI, SJTU

Michael Ramsey-Musolf has been recognized with the American Physical

Society's prestigious Herman Feshbach Prize in Theoretical Nuclear Physics.



Exploring

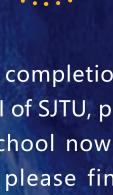
Alien

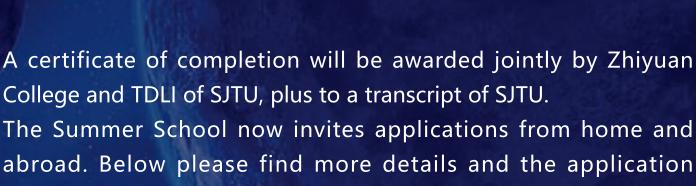
Civilizations

Shanghai Astronomy Museum Huangpu River Cruise

Health Insurance For all the participants, proof of effective health insurance must be

A merit-based travel grant is open for application. Applicants will be considered for the grant based on CV and letter of recommendation.







Panorama: "Quest for Infinity" Organizer

in science and technology. and aims to become a top-notch physics and astronomy research

• July 8th to 18th, 2024

Dean of Zhiyuan College.

The main courses will include quantum field theory and elementary particles, quantum computing and quantum materials, as well as three major themes ranging from exoplanets to black holes. The courses will briefly introduce the basic physical ideas and frameworks of each direction, and then swiftly delve into their applications and developments in cutting-edge research fields.

vast and the minuscule.

"The Largest and The Smallest"

TDLI, SJTU Dong Lai is a theoretical astrophysicist who has worked on a number of different areas, from compact objects to exoplanets. He has made original contributions on the physical processes that take place in strong magnetic fields of neutron stars, such as the effect of QED on radiative transfer in neutron star atmospheres and x-ray polarization signatures, and the magnetic effect on the property of neutron star surfaces and interiors. His theoretical works have also helped constrain and elucidate the physical mechanisms of supernova kicks.



Novel **Ultra-short** Laboratory Ultra-intense Quantum Astrophysics **Laser Physics** Matter **Extracurricular Activities**



Amount 5,000 RMB

provided before July 8th 2024. Summer School. Home Institution Location

Physics Summer School".

Talks: **Direct Dark Dark Energy** Neutrino Matter Telescope in Astronomical **Detection Deep Sea Observations**

and free of charge. **Dining** Dining options are accessible in the building of TDLI.

Travel Grant

15,000 RMB

Awardees will receive the travel grants upon completion of the Asia (outside the mainland of China) America & Europe Other countries & regions 13,000 RMB

Contact Us

Contact Ms. Li (binglisjtu@sjtu.edu.cn) via email entitled "2024

SJTU Campus Tour **Housing** Lodging on Zhangjiang Campus of SJTU will be available