LI-CHENG FENG (馮立誠)

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EDUCATION

M.S., Physics, National Chaio Tung University (NCTU), Taiwan Sep. 2018 - present

 $GPA: 3.60/4.0 \ (3.87/4.3)$ Ranking: 10/45

B.S., Physics, National Taiwan Normal University (NTNU), Taiwan Sep. 2014 - June. 2018

 ${\rm GPA}: 3.28/4.0 \; (3.47/4.3) \qquad {\rm Last} \; 60 \; {\rm GPA}: 3.58/4.0 \; (3.74/4.3) \qquad {\rm Ranking}: \; 21/66$

PUBLICATION

Main author paper

Li-Cheng Feng, David Blum, Guey-Lin Lin, Tobias Lachenmaier, Kuo-Lun Jen, et al. (JUNO Collaboration.), "Obsering MeV Dark Matter with JUNO" (preparing)

Co-author paper

Yi-Jehng Kuan, Steven B. Charnley, Zbigniew Kisiel, Yo-Ling Chuang, Guan-Ting Su, **Li-Cheng Feng**, "Interstellar Pyrimidine" (preparing)

SELECTED HONORS

- 2020 Ministry of Education Exchange Student Scholarship, for being in the top 30% among the outgoing exchange students in Taiwan, based on GPA.

 Sep 2020
- 2019 NCTU Institute of Physics Elite Student Award, for showing high motivation and exceptional academic performance, 3 out of 45 applicants.

 Apr 2019
- 2018 NCTU Institute of Physics Excellence Entrance Student Scholarship, for outstanding graduates who enroll in NCTU IoP master's program. 1 out of 30 applicants. Sep 2018
- Academic Excellence Award, from NTNU, for being in the top 5% of the department in the semester, based on GPA.

 Fall 2017
- 2017 UCAT Summer Fellowships, from the University Consortium of ALMA Taiwan for conducting scientific research with ALMA.

 Summer 2017

RESEARCH EXPERIENCE

Graduate Research

July. 2018 - present

- Project: Estimate Dark Matter 90% C.L. upper limit cross section for JUNO detector.
- Advisor: Prof. Guey-Lin Lin
- Using Monte Carlo method to simulate the detector signal result from the anti-electron neutrino annihilate from MeV Dark Matter in milky way galaxy, related backgrounds and veto methods.
- Publication "Observing MeV Dark Matter with JUNO" is preparing.

- Project: Search Interstellar Pyrimidine in Orion KL.
- Advisor: Prof. Yi-Jehng Kuan
- Identify the molecule lines in Orion KL, such as acetic acid, Methyl formate, Alcohol, Ethanol, and so on. Particularly search for pyrimidine upon these complex organic molecules.
- Publication "Interstellar Pyrimidine" is preparing.

PRESENTATIONS

Oral

- "Status update of the DM studies in NCTU", Regular JUNO Physics/Simulation Online Meeting, Hsinchu, Taiwan.
 May 2020
- "Capability of MeV Dark Matter Detection in JUNO", 15th JUNO Collaboration Meeting, Nanning, China.
- "Observing MeV Dark Matter with JUNO", Regular JUNO Physics/Simulation Online Meeting, Hsinchu, Taiwan.

Poster

• "Observing MeV Dark Matter with JUNO", Annual Meeting of the 2020 Physical Society of Taiwan, Pingtung, Taiwan.

Feb 2020

COMPUTING & LANGUAGE SKILL

- Python, Shell script, C++, GEANT4, CASA, MySQL
- TOEFL 91, R23 L26 S22 W20
- JLPT N2

TEACHING EXPERIENCE

- Teacher Internship, High School Physics, Taichung First Senior High School. Aug. 2020 Jan 2021
- Teaching Assistant, High Energy Physics Seminar, NCTU.

Sep. 2019 - June 2020

- Teaching Practice, High School Physics, the Affiliated Senior High School of National Taiwan Normal University, Secondary Teacher Education Program.

 Mar. 2018 May 2018
- Lecturer, Astronomical Observation Workshop, Kenting Observatory

Sep. 2018

MISCELLANEOUS EXPERIENCE

• Exchange Student, Czech Technical University in Prague.

Feb. 2020 - present

• Visiting Student Researcher, University Consortium of ALMA - Taiwan.

June 2017 - Sep. 2017

• Guide, Mountaineering Club, NTNU.

Oct. 2016 - present

Last updated, Feb 2021