ZHANG, Ce (Cedric) 张 策

ce.zhang@liverpool.ac.uk

EMPLOYMENT

Oct. 2022 – Present	Postdoctoral research associate University of Liverpool
EDUCATION	
Sep. 2017 – Sep. 2022	Ph.D. (Natural Science) Peking University
Sep. 2013 – Sep. 2017	Bachelor of Science (Physics) Peking University
FUNDING & GRANTS	
2019 - 2021	State Scholarship from China Scholarship Council (CSC) Visiting student at High Energy Accelerator Research Organization (KEK)
2018 - 2019	Visiting Student Grant at KEK
2015 - 2016	President Fund Undergraduate research program of Peking University
MAJOR COLLABORAT	TIONS AND ROLES
2022 – Present Projects and Supervision	 Muon g-2 experiment at Fermilab Spearheading the data analysis on the muon precession frequency and beam dynamics corrections within the Europa Group Residual Slow-Term Systematic Task Force Leader for the muon precession analysis MUonE project at CERN Data analysis on running α extraction and μ – e scattering simulation framework developments Co-supervision of PhD students on the Fermilab g-2 and MUonE projects
2017 - 2022 PhD Project 2017 - 2022	 Thermal muon source development for J-PARC Muon g - 2/EDM experiment Development of muon cooling technology utilizing Muonium laser ionization combined with silica aerogel Muon beamline simulation and operation, including DAQ, high voltage systems, vacuum systems and related components.
Undergraduate Projects	Radiative decay of $\psi(3770)$ to pseudo-scalers at BESIII
SKILLS	New physics search J/ $\psi \rightarrow$ pe at BESIII
Programming languages Simulation Analysis Engineering drawing Electronics	C/C++, python Geant, Opera, CST studio ROOT, MATLAB AutoCAD NIM, PLC, EPICS, FPGA

PRESENTATIONS

Conferences	
09/2024	Fermilab Muon g – 2 Experiment
	PSI workshop "Exploring BSM physics with muons"
06/2024	J-PARC Muon g – 2/EDM experiment
	MITP Tropical Workshop 2024 (Mainz)
04/2024	The MUonE Experiment: Understanding Muon g–2 Puzzle via µ–e Scattering
	MIP 2024 (Peking University)
03/2024	Satatus of Fermilab Muon g – 2 Experiment
	IOP 2024
08/2022	Muon g – 2/EDM experiment at J-PARC
	PhiPsi 2022 (Fudan University)
07/2022	Status of the Muon g – 2/EDM experiment at J-PARC
	NuFACT 2022 (online)
08/2021	J-PARC Muon g – 2/EDM experiment
	FPUA 2021 (online)
03/2021	Project status of the muonium laser-ionization using the 1S-2S transition
	JPS Annual (76 th) meeting (online)
09/2020 01/2020	Status of laser ionization of muonium via 1S-2S transition at J-PARC
	JPS Autumn meeting (online)
	Preparation for experiment of muonium ionization with 1S-2S excitation
	FPUA 2020 (RIKEN)
09/2019	Ionization of thermal muonium via 1S-2S transition by pulsed laser
	JPS Autumn meeting (Yamagata University)
Seminars	
12/2024	The MUonE experiment: Understanding Muon $g-2$ Puzzle via $\mu-e$ Scattering
	UCL seminar
11/2024	Recent Status and Challenges of the MUonE Experiment
	Oxford seminar
10/2024	Status of MUonE experiment
	Seminar at Imperial College
08/2024	Progress and Status of the MUonE Experiment
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06/2024	Status of MUonE experiment
40/2022	Cambridge seminar
10/2023	New Results from the Muon g – 2 Experiment at Fermilab
	Warwick seminar
09/2023	Introduction to MUONE experiment
	INPAC seminar (Shanghai Jiaotong University)
05/2021	J-PARC g-2/ CDIVI experiment
12/2020	Beam entire decign at LDAPC \$2 and status of the clow much beam line
	KEK S type project cominar (online)
	NEN S-type project seminar (omme)

PUBLICATIONS

- [1] Muon g–2 Collaboration et al., *Detailed Report on the Measurement of the Positive Muon Anomalous Magnetic Moment to 0.20 Ppm*, Phys. Rev. D **110**, 032009 (2024).
- [2] The Muon g-2 Collaboration et al., *Measurement of the Positive Muon Anomalous Magnetic Moment to 0.20 Ppm*, Phys. Rev. Lett. **131**, 161802 (2023).
- [3] C. Zhang et al., Modeling the Diffusion of Muonium in Silica Aerogel and Its Application to a Novel Design of Multi-Layer Target for Thermal Muon Generation, Nucl. Instrum. Methods Phys. Res. Sect. Accel. Spectrometers Detect. Assoc. Equip. 1042, 167443 (2022).
- [4] C. Zhang et al., Simulation Study of Laser Ionization of Muonium by 1S-2S Excitation for the Muon g 2/EDM Experiment at J-PARC, in Proceedings of the 3rd J-PARC Symposium (J-PARC2019), Vol. 33 (Journal of the Physical Society of Japan, 2021).