



*Latest experimental results,  
state-of-the-art theory calculations  
and future prospects of the physics  
with multi-boson final states  
at particle colliders*

# MULTI-BOSON INTERACTIONS 2022

22-25 August Shanghai

Tsung-Dao Lee Institute &  
School of Physics and Astronomy,  
Shanghai Jiao Tong University

## Local Organization Committee:

Jun Guo (SJTU)  
Hongjian He (SJTU & TDLI)  
Xiaogang He (TDLI & SJTU)  
Kim Siang Khaw (TDLI & SJTU)  
Bing Li (SDU)  
Liang Li (SJTU)  
Qiang Li (PKU)  
Shu Li (TDLI & SJTU)  
Kun Liu (TDLI & SJTU)  
Yanwen Liu (USTC)  
Michael Ramsey-Musolf (TDLI & SJTU)  
Yusheng Wu (USTC)  
Lailin Xu (USTC)  
Haijun Yang (SJTU & TDLI)

## International Advisory Board:

John Campbell (FNAL)  
Roberto Covarelli (U Turin)  
Christophe Grojean (DESY)  
Tao Han (U Pittsburgh)  
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Ian Lewis (U Kansas)  
Joany Manjarres (TU Dresden)  
Marc-André Pleier (BNL)  
Jürgen Reuter (DESY)  
Junjie Zhu (U Michigan)

# Group Photos!



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Tsung-Dao Lee Institute



Multi-Boson Actions 2022  
22-25 August

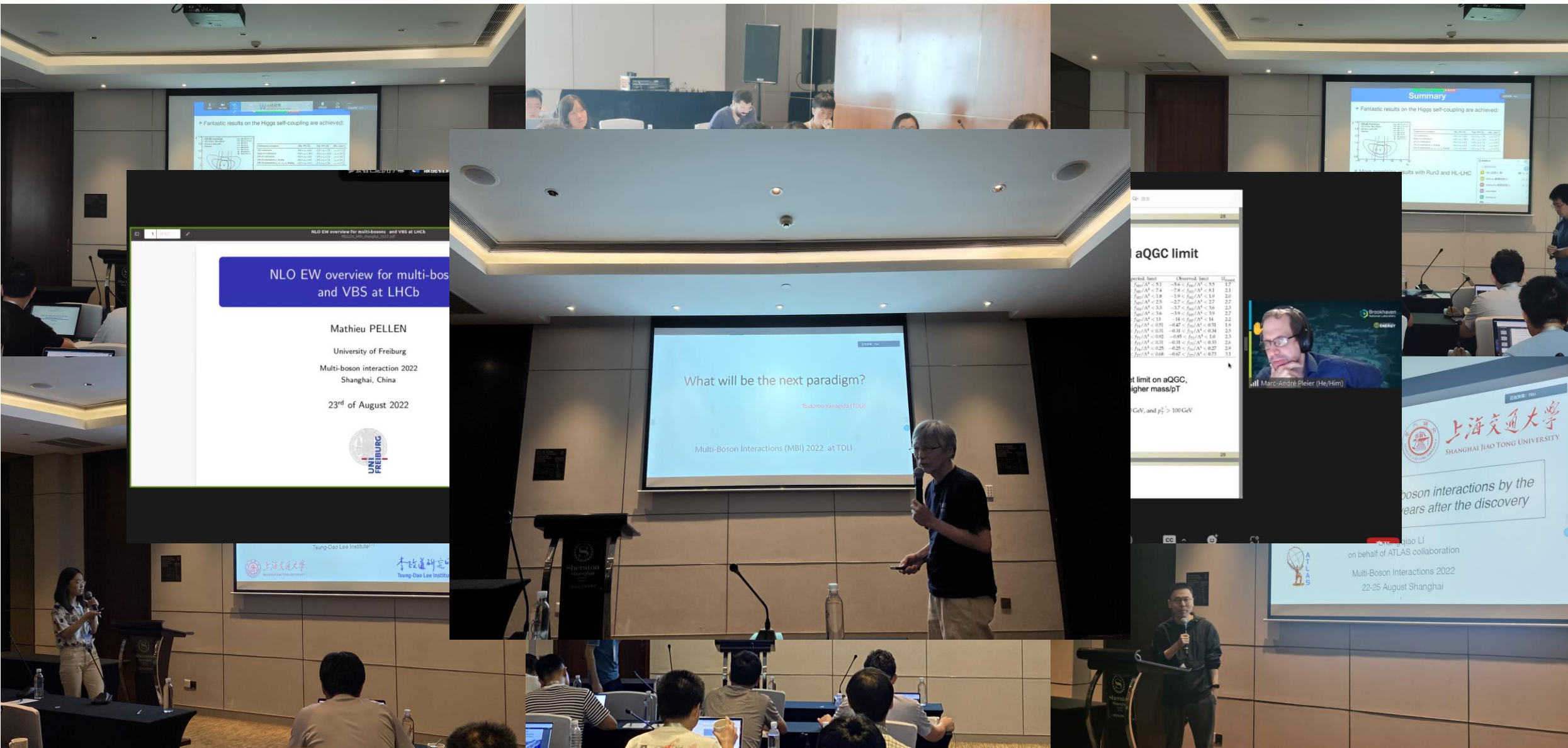
Multi-Boson in Action!

# Workshop flashing back...



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Tsung-Dao Lee Institute



# Credits to Workshop Secretaries

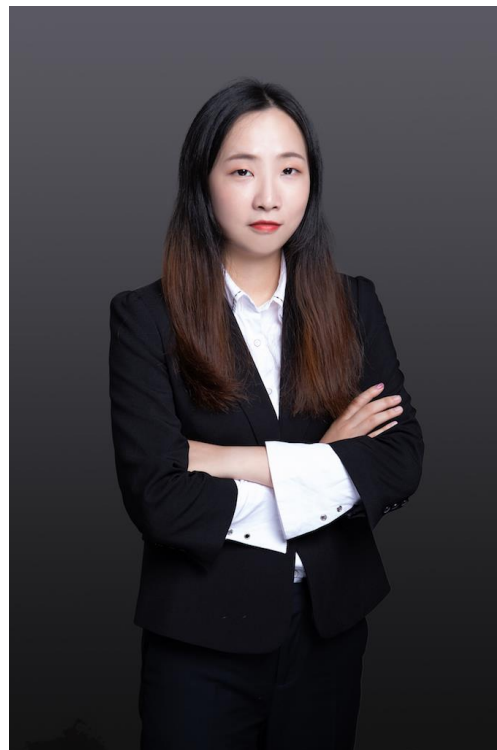


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丁梦安  
Meng'an Ding  
(CN+EN+DE+ES)



汪雯  
Wen Wang  
(CN+EN+JP)



杨子  
Zi Yang  
(CN+EN+FR)

# Thanks to all workshop assistants (Our Future HEP PhDs! 😊)



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Tsung-Dao Lee Institute



张峻华  
Junhua Zhang



刘丹宁  
Danning Liu



刘  
Qibin



毛厉宁  
Lining Mao



李家琳  
Jialin Li

# Welcome to TDLI/SJTU



上海交通大學  
SHANGHAI JIAO TONG UNIVERSITY

李政道研究所  
Tsung-Dao Lee Institute



New TDLI campus accomplished **in Oct. 2021, ready for 2022 onwards**  
~20min ride from Pudong International airport and closer to downtown!



# Particle Theory

6 Professors + 5 Associate Professors + XX Postdoc



**Xiao-Gang He**



**Xiangdong Ji**



**Michael  
Ramsey-Musolf**



**Tsutomu  
Yanagida**



**Hong-Jian He**



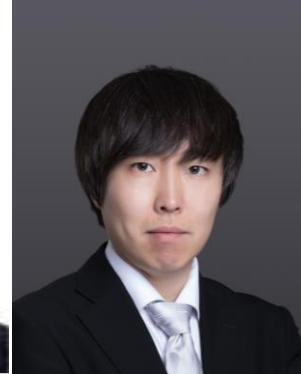
**Wei Wang**



**Jun  
Gao**



**Shaofeng  
Ge**



**Yuichiro  
Nakai**



**Jason Evans**



**Kai Yan**



# Collider Experiments

- ATLAS at LHC (Higgs, BSM, SM, Top, upgrade)
- Muon  $g-2$ /EDM/MuSR
- CEPC Physics and Detector R&D
- Dark SHINE Future Experiment R&D
- Members: **2 Professor + 6 Associate Professors**  
**10 Postdoc + 14 students**



**Haijun  
Yang**



**Liang  
Li**



**Jun  
Guo**



**Ning  
Zhou**



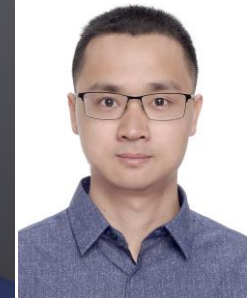
**Shu  
Li**



**Kim Siang  
Khaw**



**Kun  
Liu**



**Weihao  
Wu**





# Underground Experiments

- **PandaX: search for Dark Matter with Xenon TPC**
- **Daya Bay and JUNO: Neutrino oscillation physics**
- **PandaX-III & CUORE: Neutrinoless double beta decay**
- **Members: 3 Professors + 6 Associate Professors  
6 engineers + 8 Postdoc + 16 students**



**Xiangdong  
Ji**



**Jianglai  
Liu**



**Karl  
Giboni**



**Ke  
Han**



**Yong  
Yang**



**Ning  
Zhou**



**Dongliang  
Xu**



**Yue  
Meng**



**Junting  
Huang**

# Look forward to hosting you in the future at TDLI/SJTU!



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