

# *Di-Higgs 2020: Opportunities & Challenges*

**Tsung Dao Lee Institute  
Shanghai Jiao Tong University**

**November 19-21, 2020**

**Welcome !**

## Co-organizers

- *Yaquan Fang (IHEP)*
- *Hong-Jian He (TDLI/SJTU)*
- *Yanping Huang (IHEP)*
- *Liang Li (SJTU)*
- *Shu Li (TDLI/SJTU)*
- *Kun Liu (TDLI/SJTU)*
- *Michael Ramsey-Musolf (TDLI/SJTU)*
- *Xiaohu Sun (PKU)*
- *Haijun Yang (TDLI/SJTU)*
- *Lei Zhang (NJU)*

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- *Kun Liu (TDLI/SJTU) ← Special Thanks!*
- *Michael Ramsey-Musolf (TDLI/SJTU)*
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# *Admin Support*

- *Wen Wang (TDLI) ← Special Thanks!*

# **Workshop Goals**

- ***Raise awareness of the exciting scientific motivation for Di-Higgs searches at the LHC and beyond***
- ***Identify open challenges, opportunities, and new directions in research***
- ***Engage the Chinese HEP community in di-Higgs physics***
- ***Enjoy the science and discussions !***

# *Key Workshop Questions*

- *What is the scientific motivation for di-Higgs searches ? Are there well-defined targets ?*
- *Theoretical: How well can the signatures be predicted ?*
- *Experimental: How can the reach at the LHC (and beyond) be maximized ?*
- *What is the interplay between di-Higgs searches and other Higgs boson property studies ?*