

The 1st TDLI Summer School in Particle Physics

Report of Contributions

Contribution ID: 1

Type: **not specified**

Where to go now ? - After Newton, Einstein , Heisenberg, ... 牛顿、爱因斯坦、海森堡……之后下一 步往哪里走 ?

Monday, 6 July 2020 08:30 (1h 30m)

Opening

Video Link: <https://vshare.sjtu.edu.cn/open/11a6081e085ce2e4c7641ddb21c70de1>

Presenter: YANAGIDA, Tsutomu (TDLI)

Contribution ID: 2

Type: **not specified**

The Standard Model: The Model of All Models 粒子 物理标准模型：模型之母

Monday, 6 July 2020 10:30 (1h 30m)

Standard Model

Video link:

<https://vshare.sjtu.edu.cn/open/307914d1f9be995bac63a6386eca7583>

Presenter: EVENS, Jason (TDLI)

Contribution ID: 3

Type: **not specified**

Discussion Tsutomu Yanagida & Jason Evans

Monday, 6 July 2020 13:15 (1h 30m)

Contribution ID: 4

Type: **not specified**

Who ordered Muon? 缪子是谁点的菜 ?

Monday, 6 July 2020 15:00 (1h 30m)

Muon

Video link: <https://vshare.sjtu.edu.cn/open/974cf6b6564ec8c4a644b41ef8805704>

Presenter: LI 李亮, Liang (SJTU)

Contribution ID: 5

Type: **not specified**

Discussion Liang Li & Kim-Siang Khaw (Muon physics)

Monday, 6 July 2020 17:00 (1h 30m)

Contribution ID: 6

Type: **not specified**

Neutrino : The Harbinger of New Physics 中微子：新 物理信使

Tuesday, 7 July 2020 08:30 (1h 30m)

Neutrino

Video link:

<https://vshare.sjtu.edu.cn/open/2965bebe4603d3e22890f9014ec8e0b8>

Presenter: GE 葛韶锋, Shang-Feng (TDLI)

Contribution ID: 7

Type: **not specified**

Detecting the Chameleon of our Universe: Neutrinos 探测宇宙中的变色龙：中微子

Tuesday, 7 July 2020 10:30 (1h 30m)

Neutrino

Presenter: MENG 孟月, Yue (SJTU)

Contribution ID: 8

Type: **not specified**

Discussion Shao-Feng Ge & Yue Meng (Neutrino)

Tuesday, 7 July 2020 13:15 (1h 30m)

Contribution ID: 9

Type: **not specified**

Beyond the Higgs Boson 超越希格斯粒子

Tuesday, 7 July 2020 15:00 (1h 30m)

Beyond SM

Video link:

<https://vshare.sjtu.edu.cn/open/f8f581a91189cf8c6cb95588a8d3cffe>

Presenter: NAKAI 中井雄一郎, Yuichiro (TDLI)

Contribution ID: 10

Type: **not specified**

Discussion Yuichiro Nakai (Theoretical research on particle physics) Han Ke & Shao-Bo Wang (寻找马约拉纳中微子)

Tuesday, 7 July 2020 17:00 (1h 30m)

Contribution ID: 11

Type: **not specified**

Probing Dark Universe: the Dark Matter Puzzle 探索 暗宇宙：暗物质之谜

Wednesday, 8 July 2020 08:30 (1h 30m)

DM

Presenter: HE 何红建, Hong-Jian (SJTU)

Contribution ID: 12

Type: **not specified**

Hunting the Ghostly Dark Matter Particles in the Universe 探测宇宙中的幽灵粒子-暗物质

Wednesday, 8 July 2020 10:30 (1h 30m)

DM

Video link:

<https://vshare.sjtu.edu.cn/open/d79bf7c91436401114f6567753116850>

Presenter: LIU 刘江来, Jianglai

Contribution ID: 13

Type: **not specified**

Discussion Hong-Jian He (DM Theory)

Wednesday, 8 July 2020 13:15 (1h 30m)

Contribution ID: 14

Type: **not specified**

The Profound Beauty of Nucleus 大美之原子核

Wednesday, 8 July 2020 15:00 (1h 30m)

Nuclear

Presenter: ZHAO 赵玉民, Yu-Min (SJTU)

Contribution ID: 15

Type: **not specified**

Discussion Jiang-Lai Liu & Ning Zhou (PandaX DM experimental group) Yu-Min Zhao (Nucleus)

Wednesday, 8 July 2020 17:00 (1h 30m)

Contribution ID: 16

Type: **not specified**

Discovery and challenges at Big Colliders 大型对撞机 —发现与挑战

Thursday, 9 July 2020 08:30 (1h 30m)

Collider

Presenter: GAO 高俊, Jun (SJTU)

Contribution ID: 17

Type: **not specified**

High Energy Collider Experiments - Explore the mysteries of the sub-atomic world 高能对撞机实验： 探索微观世界的奥秘

Thursday, 9 July 2020 10:30 (1h 30m)

Collider

Video link:

<https://vshare.sjtu.edu.cn/open/95d9d9e730b982c8e4f89e8f31bc466d>

Presenter: YANG 杨海军, Hai-Jun (SJTU)

Contribution ID: **18**

Type: **not specified**

Discussion Jun Gao, Shu Li, Kun Liu et al (Collider)

Thursday, 9 July 2020 13:15 (1h 30m)

Contribution ID: 19

Type: **not specified**

The Ultimate Weapon of Quantum Field Theory Calculation: Lattice 场论计算的终极武器：格点

Thursday, 9 July 2020 15:00 (1h 30m)

Lattice QCD

Presenter: WANG 王伟, Wei (SJTU)

Contribution ID: 20

Type: **not specified**

Discussion Wei Wang (QCD lattice) Collider Group (Dive into Collider Physics)

Thursday, 9 July 2020 17:00 (1h 30m)

Contribution ID: 21

Type: **not specified**

CP violation of fundamental interactions of particles 基本粒子相互作用中的 CP 破缺

Friday, 10 July 2020 08:30 (1h 30m)

CP (B physics + Leptogenesis)

Presenter: HE 何小刚, Xiao-Gang (TDLI)

Contribution ID: 22

Type: **not specified**

Quantum Field Theory and the Early Universe 量子场论和早期宇宙

Friday, 10 July 2020 10:30 (1h 30m)

Baryogenesis, EWPT + GW

Video link:

<https://vshare.sjtu.edu.cn/open/4ea73aff96d635b8861373c94551e872>

Presenter: RAMSEY-MUSOLF, Michael (TDLI)

Contribution ID: 23

Type: **not specified**

Discussion Xiao-Gang He & Michael Ramsey-Musolf / Suntharan Arunasalam (CP Violation & Phase Transition)

Friday, 10 July 2020 13:30 (1h 30m)

Contribution ID: 24

Type: **not specified**

Online lab tour

Friday, 10 July 2020 15:30 (1h 30m)

Contribution ID: 25

Type: **not specified**

Lecture & Discussion Yang Sun (Nuclear astrophysics)

Friday, 10 July 2020 19:30 (1h 30m)

Contribution ID: 26

Type: **not specified**

The Dense Matter Equation of State & The Neutron Star Structure 致密物质的状态方程与中子星的结构

Saturday, 11 July 2020 08:30 (1h 30m)

Dense Matter & Neutron Star

Presenter: CHEN 陈列文, Lie-Wen (SJTU)

Contribution ID: 27

Type: **not specified**

Exploring the Universe with Neutrinos 通过中微子来 仰望星空

Saturday, 11 July 2020 10:30 (1h 30m)

Presenter: XU 徐东莲, Donglian

Contribution ID: 28

Type: **not specified**

Discussion Lie-Wen Chen (Nuclear dense matter)

Saturday, 11 July 2020 13:30 (1h 30m)

Contribution ID: 29

Type: **not specified**

Discussion Dong-Lian Xu (Multimessenger)

Saturday, 11 July 2020 15:30 (1h 30m)