

Dark SHINE Seasonal Workshop

Report of Contributions

Contribution ID: 2

Type: **not specified**

Tutorial on DSimu and DAna

Saturday, 8 April 2023 09:30 (1 hour)

Presenter: SUN, Tong

Session Classification: DarkSHINE Framework review and tutorial

Contribution ID: 3

Type: **not specified**

Framework review

Saturday, 8 April 2023 09:00 (30 minutes)

Presenter: ZHU, Xuliang

Session Classification: DarkSHINE Framework review and tutorial

Contribution ID: 4

Type: **not specified**

What can we learn from the first publication?

Saturday, 8 April 2023 11:00 (20 minutes)

Presenters: CHEN, Jing; WANG, Yufeng (TDLI)

Contribution ID: 5

Type: **not specified**

Progress of DarkSHINE competitors

Saturday, 8 April 2023 11:30 (20 minutes)

1. LDMX (May 2022): <https://inspirehep.net/files/4e50448f55d46a0f5828239a68bb6f45>
2. NA64 (Jan. 2023): <https://arxiv.org/pdf/2301.09905.pdf>
3. ILC (Jan. 2023): <https://arxiv.org/pdf/2301.03816.pdf>
4. SeDS (Jun. 2022, Search for Dark Sector by Repurposing the UVX Brazilian Synchrotron): <https://arxiv.org/abs/2206.05305>

Contribution ID: 6

Type: **not specified**

Simulation and reconstruction in ECAL

Saturday, 8 April 2023 13:30 (30 minutes)

Presenter: LIU, Qibin

Session Classification: Status of DarkSHINE sub-detector simulation and R&D

Contribution ID: 7

Type: **not specified**

ECAL detector R&D status

Saturday, 8 April 2023 14:00 (20 minutes)

Presenter: ZHAO, Zhiyu

Session Classification: Status of DarkSHINE sub-detector simulation and R&D

Contribution ID: 8

Type: **not specified**

status of tracking simulation and reconstruction

Saturday, 8 April 2023 14:35 (30 minutes)

Presenters: ZHANG, Junhua; ZHU, Yifan

Session Classification: Status of DarkSHINE sub-detector simulation and R&D

Contribution ID: 9

Type: **not specified**

Tracker R&D status

Saturday, 8 April 2023 15:05 (20 minutes)

Presenter: LIU, Kang

Session Classification: Status of DarkSHINE sub-detector simulation and R&D

Contribution ID: 11

Type: **not specified**

Dark photon visible decay

Saturday, 8 April 2023 17:00 (20 minutes)

Presenters: CHEN, Xiang; LU, Zejia (SJTU)

Session Classification: More physics opportunities at DarkSHINE

Contribution ID: 12

Type: **not specified**

Other models at DarkSHINE

Saturday, 8 April 2023 17:20 (20 minutes)

Feel free to upload slides and lead the discussion on a dedicated idea

Presenter: WANG, Yufeng (TDLI)

Session Classification: More physics opportunities at DarkSHINE

Contribution ID: 13

Type: **not specified**

HCAL simulation and design optimization

Saturday, 8 April 2023 16:10 (30 minutes)

Presenters: LIU, Hanqing; WANG, Zhen (TDLI)

Session Classification: Status of DarkSHINE sub-detector simulation and R&D

Contribution ID: 14

Type: **not specified**

HCAL detector R&D

Saturday, 8 April 2023 16:40 (20 minutes)

Presenter: Dr YUAN, Rui (TDLI, SJTU)

Session Classification: Status of DarkSHINE sub-detector simulation and R&D

Contribution ID: 15

Type: **not specified**

BEPCII and other beam dump experiments

Saturday, 8 April 2023 17:40 (20 minutes)

Presenter: ZHANG, Yulei

Session Classification: More physics opportunities at DarkSHINE

Contribution ID: 16

Type: **not specified**

Machine Learning Application in Track Finding

Saturday, 8 April 2023 15:25 (15 minutes)

Presenters: MO, Cen; ZHANG, Yulei

Session Classification: Status of DarkSHINE sub-detector simulation and R&D

Contribution ID: 17

Type: **not specified**

ML assisted Calorimeter FastSim

Saturday, 8 April 2023 14:20 (15 minutes)

Presenter: SONG, Siyuan

Session Classification: Status of DarkSHINE sub-detector simulation and R&D

Contribution ID: **18**

Type: **not specified**

Hello from Prof. Kim Siang Khaw

Saturday, 8 April 2023 18:00 (15 minutes)

Presenter: Prof. KHAW, Kim Siang (TDLI/SJTU)

Session Classification: More physics opportunities at DarkSHINE