ICFA Mini-Workshop on Future gamma-gamma Collider

Report of Contributions

Welcome

Contribution ID: 2 Type: not specified

Welcome

Primary author: Mr XUE, Qikun

Presenter: Dr ZHAO, Zhentang (Shanghai Institute of Applied Physics)

Contribution ID: 3 Type: not specified

Welcome

Primary author: Mr XUE, Qikun

Contribution ID: 4 Type: **not specified**

Welcome

Primary author: Mr XUE, Qikun

Opening remarks

Contribution ID: 5 Type: **not specified**

Opening remarks

Primary author: Prof. WANG YIFANG, Yifang (IHEP)

Contribution ID: 6 Type: **not specified**

Motivation of this workshop

Primary author: Dr CHOU, Weiren (FNAL)

Contribution ID: 7 Type: **not specified**

Overview of $\gamma\gamma$ collider

Primary author: Prof. TELNOV, Valery (Budker Institute of Nuclear Physics)

Sciences of $\gamma\gamma$ collider

Contribution ID: 8 Type: **not specified**

Sciences of $\gamma\gamma$ collider

Contribution ID: 9 Type: not specified

Welcome

Opening remarks

Contribution ID: 10 Type: not specified

Opening remarks

Presenter: Prof. WANG YIFANG, Yifang (IHEP)

Contribution ID: 11 Type: not specified

Welcome

Sunday, 23 April 2017 09:00 (5 minutes)

Presenter: Prof. XUE, Qikun

Session Classification: General

Opening remarks

Contribution ID: 12 Type: not specified

Opening remarks

Sunday, 23 April 2017 09:05 (5 minutes)

Presenter: Prof. WANG YIFANG, Yifang (IHEP)

Session Classification: General

Contribution ID: 13 Type: not specified

Motivation of this workshop

Sunday, 23 April 2017 09:10 (30 minutes)

Presenter: Dr CHOU, Weiren (FNAL)

Session Classification: General

Overview of $\gamma\gamma$ collider

Contribution ID: 14 Type: not specified

Overview of yy collider

Sunday, 23 April 2017 09:40 (30 minutes)

Presenter: Dr TELNOV, Valery

Session Classification: General

Sciences of yy collider

Contribution ID: 15 Type: not specified

Sciences of $\gamma\gamma$ collider

Sunday, 23 April 2017 10:10 (30 minutes)

Presenter: Dr VELASCO, Mayda

Session Classification: General

Contribution ID: 16 Type: not specified

New physics in an intermediate energy e-e- collider

Sunday, 23 April 2017 11:10 (30 minutes)

Presenter: Dr CHEN, Ziheng

Session Classification: Accelerator technology for γγ collider

ILC-based γγ collider

Contribution ID: 17 Type: not specified

ILC-based yy collider

Sunday, 23 April 2017 11:40 (30 minutes)

Presenter: YOKOYA, Kaoru (KEK)

Session Classification: Accelerator technology for $\gamma\gamma$ collider

CLIC-based yy collider

Contribution ID: 18 Type: not specified

CLIC-based yy collider

Sunday, 23 April 2017 12:10 (30 minutes)

Presenter: Dr LACOMA, Edu Marin

Session Classification: Accelerator technology for $\gamma\gamma$ collider

Contribution ID: 19 Type: not specified

X-band linac based yy collider

Sunday, 23 April 2017 14:00 (30 minutes)

Presenter: Dr KIM, Kwang-Je

Session Classification: Accelerator technology for $\gamma\gamma$ collider

Contribution ID: 20 Type: not specified

Sapphire/HFiTT and FCC/CEPC for yy collider

Sunday, 23 April 2017 14:30 (30 minutes)

Presenter: Dr CHOU, Weiren (FNAL)

Session Classification: Accelerator technology for $\gamma\gamma$ collider

Contribution ID: 21 Type: not specified

Challenge to the booster and linac

Sunday, 23 April 2017 15:00 (30 minutes)

Presenter: Prof. ZHANG CHUANG, Chuang (Institute of High Energy Physics, Chinese Academy

of Sciences)

Session Classification: Accelerator technology for $\gamma\gamma$ collider

Contribution ID: 22 Type: not specified

Beam driven acceleration for $\gamma\gamma$ collider (Facet)

Sunday, 23 April 2017 16:30 (30 minutes)

Presenter: Dr HOGAN, Mark

Session Classification: Accelerator technology for $\gamma\gamma$ collider

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Contribution ID: 23 Type: not specified

Review of plasma based acceleration

Sunday, 23 April 2017 16:00 (30 minutes)

Presenter: Dr BINGHAM, Bob

Session Classification: Accelerator technology for $\gamma\gamma$ collider

Contribution ID: 24 Type: not specified

Key physics of plasma based acceleration and its implication to $\gamma\gamma$ collider

Sunday, 23 April 2017 17:00 (30 minutes)

Presenter: Dr LU, Wei (Tsinghua University)

Session Classification: Accelerator technology for $\gamma\gamma$ collider

Contribution ID: 25

Type: not specified

Beam driven acceleration for $\gamma\gamma$ collider

Presenter: Dr HOGAN, Mark

Contribution ID: 26 Type: not specified

Dielectric wakefield acceleration for $\gamma\gamma$ collider

Presenter: Dr JING, Chunguang

Contribution ID: 27 Type: not specified

DLA accelerator and possible application for $\gamma\gamma$ collider

Presenter: Prof. BYER, Bob

Contribution ID: 28 Type: not specified

SLAC AAC program and US Roadmap

Monday, 24 April 2017 09:00 (30 minutes)

Presenter: Dr YAKIMENKO, Vitaly

Session Classification: Accelerator technology for $\gamma\gamma$ collider

Contribution ID: 29 Type: not specified

Dielectric wakefield acceleration for yy collider

Monday, 24 April 2017 10:00 (30 minutes)

Presenter: Dr JING, Chunguang

Session Classification: Accelerator technology for γγ collider

Contribution ID: 30 Type: not specified

DLA accelerator and possible application for $\gamma\gamma$ collider

Monday, 24 April 2017 09:30 (30 minutes)

Presenter: Prof. BYER, Robert Louis

Session Classification: Accelerator technology for $\gamma\gamma$ collider

Contribution ID: 31 Type: not specified

Large scale PIC simulations for future HEP accelerators

Monday, 24 April 2017 11:00 (30 minutes)

Presenter: Dr SILVA, Luis

Session Classification: Accelerator technology for $\gamma\gamma$ collider

Contribution ID: 32 Type: not specified

Development of laser plasma acceleration and light sources

Monday, 24 April 2017 11:30 (30 minutes)

Presenter: Dr SHENG, Zhengming

Session Classification: Accelerator technology for $\gamma\gamma$ collider

Contribution ID: 33 Type: not specified

Proton driven plasma wakefield acceleration: AWAKE and beyond

Monday, 24 April 2017 12:00 (30 minutes)

Presenter: Dr XIA, Guoxing

Session Classification: Accelerator technology for γγ collider

Contribution ID: 34 Type: not specified

Laser architecture for yy collider

Monday, 24 April 2017 14:00 (30 minutes)

Presenter: Dr BARTY, Chris

Session Classification: Laser technology for $\gamma\gamma$ collider

Contribution ID: 35 Type: not specified

XCAN laser for yy collider applications

Monday, 24 April 2017 14:30 (30 minutes)

Presenter: Dr MOUROU, Gerard

Session Classification: Laser technology for $\gamma\gamma$ collider

Contribution ID: 36 Type: not specified

Laser driver for high-energy physics

Monday, 24 April 2017 15:00 (30 minutes)

Presenter: Dr MOUROU, Gerard

Session Classification: Laser technology for $\gamma\gamma$ collider

Contribution ID: 37 Type: not specified

CO2 based laser for yy collider

Monday, 24 April 2017 16:00 (30 minutes)

Presenter: POGORELSKY, Igor (B)

Session Classification: Laser technology for $\gamma\gamma$ collider

Contribution ID: 38 Type: not specified

Ultraintense laser development and laser driven particle acceleration at SIOM

Monday, 24 April 2017 16:30 (30 minutes)

Presenter: Dr LENG, Yuxin

Session Classification: Laser technology for $\gamma\gamma$ collider

Contribution ID: 39 Type: not specified

Development of high power laser systems at LFRC

Monday, 24 April 2017 17:00 (30 minutes)

Presenter: Dr SU, Jingqin

Session Classification: Laser technology for $\gamma\gamma$ collider

Contribution ID: 40 Type: not specified

Laser driven particle acceleration and radiation source development at LFRC

Tuesday, 25 April 2017 10:00 (30 minutes)

Presenter: Dr GU, Yuqiu

Session Classification: Beam-laser interaction & applications

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KEK ICS experiment

Contribution ID: 41 Type: not specified

KEK ICS experiment

Tuesday, 25 April 2017 09:30 (30 minutes)

Presenter: Dr URAKAWA, Junji

Session Classification: Beam-laser interaction & applications

Contribution ID: 42 Type: not specified

Study of laser-beam interaction

Tuesday, 25 April 2017 09:00 (30 minutes)

Presenter: Dr BRUNETTI, Enrico

Session Classification: Beam-laser interaction & applications

Contribution ID: 43 Type: not specified

Interaction region of yy collider

Tuesday, 25 April 2017 11:30 (30 minutes)

Presenter: Dr TAKAHASHI, Tohru (Hiroshima University)

Session Classification: Beam-laser interaction & applications

Type: not specified

Contribution ID: 44

Generation of high intensity γ -ray in critical density plasma

Tuesday, 25 April 2017 12:00 (30 minutes)

Presenter: YU, Jinqing (Peking University)

Session Classification: Beam-laser interaction & applications

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Contribution ID: 45

Type: not specified

Tsinghua Thomson scattering x-ray source (TTX) and applications

Tuesday, 25 April 2017 11:00 (30 minutes)

Presenter: Prof. HUANG, wenhui (Tsinghua University)

Session Classification: Beam-laser interaction & applications

Contribution ID: 46 Type: not specified

ICS γ -ray and application at IHEP

Tuesday, 25 April 2017 14:30 (30 minutes)

Presenter: HUANG, Yongsheng (Graduate School of CNNC)

Session Classification: Beam-laser interaction & applications

Contribution ID: 47 Type: **not specified**

γ -ray station at SSRF (SLEGS)

Tuesday, 25 April 2017 14:00 (30 minutes)

Presenter: Dr MA, Yugang

Session Classification: Beam-laser interaction & applications

Contribution ID: 48 Type: **not specified**

Overview of High Intensity γ -ray Source (HIGS)

Tuesday, 25 April 2017 15:00 (30 minutes)

Presenter: LI, Jingyi (U)

Session Classification: Beam-laser interaction & applications