

FCC-ee polarization workshop



Report of Contributions

Contribution ID: 1

Type: **not specified**

Session I VIDYO conference connection

Wednesday, 18 October 2017 14:45 (15 minutes)

Presenter: BLONDEL, Alain (Universite de Geneve (CH))

Session Classification: Session in 37-R-022

Contribution ID: 2

Type: **not specified**

requirements from Z physics

Wednesday, 18 October 2017 15:00 (29 minutes)

Presenter: BLONDEL, Alain (Universite de Geneve (CH))

Session Classification: Session in 37-R-022

Contribution ID: 3

Type: **not specified**

requirements from W physics

Wednesday, 18 October 2017 15:29 (15 minutes)

Presenter: AZZURRI, Paolo (INFN Sezione di Pisa, Universita' e Scuola Normale Superiore, P)

Session Classification: Session in 37-R-022

Contribution ID: 4

Type: **not specified**

requirements at high energy (HZ and tt)

Wednesday, 18 October 2017 15:44 (10 minutes)

Session Classification: Session in 37-R-022

Contribution ID: 5

Type: **not specified**

Present status of FCC-ee optics

Wednesday, 18 October 2017 16:30 (20 minutes)

Presenters: OIDE, Katsunobu (High Energy Accelerator Research Organization (JP)); OIDE, Katsunobu

Session Classification: Session in 37-R-022

Contribution ID: 6

Type: **not specified**

alignments and corrections

Wednesday, 18 October 2017 16:50 (20 minutes)

Presenter: AUMON, Sandra (CERN)

Session Classification: Session in 37-R-022

Contribution ID: 7

Type: **not specified**

Twiss and Coupling Correction at Cornell's CESR e+/e- Storage Ring

Wednesday, 18 October 2017 17:10 (20 minutes)

Presenter: SAGAN, David

Session Classification: Session in 37-R-022

Contribution ID: 8

Type: **not specified**

transverse polarization performance estimates, effect of wigglers requirement on corrections open questionsrequirement on

Wednesday, 18 October 2017 17:30 (30 minutes)

Presenter: GIANFELICE-WENDT, Eliana (Fermi National Accelerator Lab. (US))

Session Classification: Session in 37-R-022

Contribution ID: 9

Type: **not specified**

discussion and action items

Wednesday, 18 October 2017 18:00 (20 minutes)

Session Classification: Session in 37-R-022

Contribution ID: **10**

Type: **not specified**

VIDYO conference connection

Thursday, 19 October 2017 14:45 (15 minutes)

Session Classification: Session in 376-1-020

Contribution ID: 11

Type: **not specified**

experience on precise energy calibration from Novosibirsk

Thursday, 19 October 2017 15:00 (20 minutes)

Presenter: KOOP, Ivan (BINP)

Session Classification: Session in 376-1-020

Contribution ID: 12

Type: **not specified**

experience from precise energy calibration at LEP and issues

Thursday, 19 October 2017 15:30 (20 minutes)

Presenter: WILKINSON, Guy (University of Oxford (GB))

Session Classification: Session in 376-1-020

Contribution ID: 13

Type: **not specified**

baseline running scheme with wigglers and systematic errors as they stand

Thursday, 19 October 2017 16:30 (20 minutes)

Presenter: KORATZINOS, m (Universite de Geneve (CH))

Session Classification: Session in 376-1-020

Contribution ID: 14

Type: **not specified**

Energy calibration by resonant depolarization: depolarizer settings, time it takes to do a calibration

Thursday, 19 October 2017 17:00 (30 minutes)

Presenter: WENNINGER, Jorg (CERN)

Session Classification: Session in 376-1-020

Contribution ID: 15

Type: **not specified**

table of parameters: wigglers polarimeter depolarizer

Thursday, 19 October 2017 17:40 (20 minutes)

Presenter: WENNINGER, Jorg (CERN)

Session Classification: Session in 376-1-020

Contribution ID: **16**

Type: **not specified**

discussion and action items

Thursday, 19 October 2017 18:00 (20 minutes)

Session Classification: Session in 376-1-020

Contribution ID: 17

Type: **not specified**

systematic errors on the E_CM energy calibration – theoretical issues

Friday, 20 October 2017 15:00 (30 minutes)

Presenter: Dr BOGOMYAGKOV, Anton

Session Classification: Session in 37-R-022

Contribution ID: **18**

Type: **not specified**

Spin Simulations with the Bmad Toolkit

Friday, 20 October 2017 16:30 (20 minutes)

Presenter: SAGAN, David

Session Classification: Session in 37-R-022

Contribution ID: 19

Type: **not specified**

simulation tools for polarization and energy calibration

Friday, 20 October 2017 15:30 (20 minutes)

Presenter: BARBER, Desmond (DESY)

Session Classification: Session in 37-R-022

Contribution ID: 20

Type: **not specified**

measurements of RF phase and saw-toothing at FCC-ee

Friday, 20 October 2017 17:00 (20 minutes)

Presenters: TIMKO, Helga (CERN); HILDRETH, Mike (Department of Physics-College of Science-University of Notre Da); HILDRETH, Mike (University of Notre Dame (US)); HOFLE, Wolfgang (CERN)

Session Classification: Session in 37-R-022

Contribution ID: 21

Type: **not specified**

Beam energy spread measurement at FCC-ee

Friday, 20 October 2017 17:30 (19 minutes)

Presenter: JANOT, Patrick (CERN)

Session Classification: Session in 37-R-022

Contribution ID: 22

Type: **not specified**

determination of energy spread from beam parameters, bunch length, beam sizes

Friday, 20 October 2017 18:00 (20 minutes)

Presenters: LEFEVRE, Thibaut (CERN); KORATZINOS, m (Universite de Geneve (CH))

Session Classification: Session in 37-R-022

Contribution ID: 23

Type: **not specified**

VIDYO conference connection

Monday, 23 October 2017 14:45 (15 minutes)

Presenter: BLONDEL, Alain (Universite de Geneve (CH))

Session Classification: Session in 376-1-020

Contribution ID: 24

Type: **not specified**

summary of actions from 1st week, plan for second week

Monday, 23 October 2017 15:00 (15 minutes)

Presenters: BLONDEL, Alain (Universite de Geneve (CH)); WENNINGER, Jorg (CERN)

Session Classification: Session in 376-1-020

Contribution ID: 25

Type: **not specified**

Touschek effect and monitor beam intensity

Monday, 23 October 2017 16:30 (20 minutes)

Presenter: TYDECKS, Tobias (CERN)

Session Classification: Session in 376-1-020

Contribution ID: 26

Type: **not specified**

Compton Polarimeter

Monday, 23 October 2017 16:50 (30 minutes)

Presenter: MUCHNOI, Nikolai

Session Classification: Session in 376-1-020

Contribution ID: 27

Type: **not specified**

a new measurement technique for 10-6 beam energy at the Z

Monday, 23 October 2017 15:15 (30 minutes)

Presenter: NIKITIN, Serguey

Session Classification: Session in 376-1-020

Contribution ID: **28**

Type: **not specified**

discussion and action items

Monday, 23 October 2017 17:40 (20 minutes)

Session Classification: Session in 376-1-020

Contribution ID: 29

Type: **not specified**

Compton Polarimeter possible location

Monday, 23 October 2017 17:20 (20 minutes)

Presenters: OIDE, Katsunobu; OIDE, Katsunobu (High Energy Accelerator Research Organization (JP))

Session Classification: Session in 376-1-020

Contribution ID: **30**

Type: **not specified**

VIDYO conference connection

Tuesday, 24 October 2017 14:45 (15 minutes)

Presenter: BLONDEL, Alain (Universite de Geneve (CH))

Session Classification: Session in 376-1-020

Contribution ID: 31

Type: **not specified**

Scan points for W and Z and motivation for precision energy calibration in high statistics runs

Tuesday, 24 October 2017 15:00 (20 minutes)

Presenter: BLONDEL, Alain (Universite de Geneve (CH))

Session Classification: Session in 376-1-020

Contribution ID: 32

Type: **not specified**

supplementary monitoring Spectrometer (possibly within polarimeter)

Tuesday, 24 October 2017 15:30 (20 minutes)

Presenters: MUCHNOI, Nickolai (BINP Novosibirsk); MUCHNOI, Nickolai; MUCHNOY, Nikolay (BINP Novosibirsk)

Session Classification: Session in 376-1-020

Contribution ID: 33

Type: **not specified**

Further Polarization results vs number of wigglers and Qs

Tuesday, 24 October 2017 16:30 (20 minutes)

Presenter: GIANFELICE-WENDT, Eliana (Fermi National Accelerator Lab. (US))

Session Classification: Session in 376-1-020

Contribution ID: **34**

Type: **not specified**

Simulations of polarization dependence on Qs

Tuesday, 24 October 2017 16:50 (20 minutes)

Presenters: KOOP, Ivan (Budker Institute of Nuclear Physics (RU)); KOOP, Ivan (BINP)

Session Classification: Session in 376-1-020

Contribution ID: 35

Type: **not specified**

VIDYO conference connection

Wednesday, 25 October 2017 14:45 (15 minutes)

Presenter: BLONDEL, Alain (Universite de Geneve (CH))

Session Classification: Session in 37-R-022

Contribution ID: 36

Type: **not specified**

Follow up on energy spread, energy asymmetry, and all that

Wednesday, 25 October 2017 15:00 (30 minutes)

Presenter: JANOT, Patrick (CERN)

Session Classification: Session in 37-R-022

Contribution ID: 37

Type: **not specified**

VIDYO conference connection

Thursday, 26 October 2017 14:45 (15 minutes)

Presenter: BLONDEL, Alain (Universite de Geneve (CH))

Session Classification: Session in 376-1-020

Contribution ID: **38**

Type: **not specified**

TBC How to measure/monitor the energy spread with beam instrumentation

Thursday, 26 October 2017 16:30 (30 minutes)

Presenter: LEFEVRE, Thibaut (CERN)

Session Classification: Session in 376-1-020

Contribution ID: 39

Type: **not specified**

"Inverse Compton Scattering of Beamstrahlung Radiation on the Oncoming Bunch Particles at FCC-ee"

Wednesday, 25 October 2017 15:30 (20 minutes)

Presenters: MUCHNOI, Nickolai (BINP Novosibirsk); MUCHNOI, Nickolai; MUCHNOY, Nikolay (Budker Institute of Nuclear Physics (RU))

Session Classification: Session in 37-R-022

Contribution ID: 40

Type: **not specified**

FCC-ee Integrated Polarimeter/spectrometer

Thursday, 26 October 2017 15:30 (30 minutes)

Presenters: BLONDEL, Alain (Universite de Geneve (CH)); MUCHNOI, Nickolai (BINP Novosibirsk); MUCHNOI, Nickolai; MUCHNOY, Nikolay (Budker Institute of Nuclear Physics (RU))

Session Classification: Session in 376-1-020

Contribution ID: 41

Type: **not specified**

spin tune shifts

Thursday, 26 October 2017 15:00 (20 minutes)

Presenter: GIANFELICE-WENDT, Eliana (Fermi National Accelerator Lab. (US))

Session Classification: Session in 376-1-020

Contribution ID: 42

Type: **not specified**

VIDYO conference connection

Friday, 27 October 2017 14:45 (15 minutes)

Presenter: BLONDEL, Alain (Universite de Geneve (CH))

Session Classification: Session in 37-R-022

Contribution ID: 43

Type: **not specified**

Further details and studies on polarimeter/spectrometer

Friday, 27 October 2017 15:00 (20 minutes)

Presenters: MUCHNOI, Nickolai (BINP Novosibirsk); MUCHNOI, Nickolai; MUCHNOY, Nikolay (Budker Institute of Nuclear Physics (RU))

Session Classification: Session in 37-R-022

Contribution ID: 44

Type: **not specified**

improvement on baseline running scheme with wigglers and systematic errors as they stand

Friday, 27 October 2017 15:20 (30 minutes)

Presenter: KORATZINOS, m (Universite de Geneve (CH))

Session Classification: Session in 37-R-022

Contribution ID: 45

Type: **not specified**

table of contents and discussion of further studies and R&D

Friday, 27 October 2017 16:30 (30 minutes)

Presenters: BLONDEL, Alain (Universite de Geneve (CH)); WENNINGER, Jorg (CERN)

Session Classification: Session in 37-R-022

Contribution ID: 46

Type: **not specified**

concluding remarks

Friday, 27 October 2017 17:00 (20 minutes)

Presenter: BLONDEL, Alain (Universite de Geneve (CH))

Session Classification: Session in 37-R-022

Contribution ID: 47

Type: **not specified**

More on Resonant Depolarization in FCC-ee

Friday, 27 October 2017 15:50 (20 minutes)

Presenters: KOOP, Ivan (BINP); KOOP, Ivan (Budker Institute of Nuclear Physics (RU))

Session Classification: Session in 37-R-022