

**STRONG 2020 Virtual
Workshop on "Spacelike and
Timelike determination of the
Hadronic Leading Order
contribution to the Muon $g-2$ "**



Report of Contributions

Contribution ID: 6

Type: **not specified**

Introduction

Wednesday, 24 November 2021 14:00 (10 minutes)

Presenters: KUPSC, Andrzej (Uppsala University); VENANZONI, Graziano (Istituto Nazionale di Fisica Nucleare)

Session Classification: Day 1

Contribution ID: 7

Type: **not specified**

Exclusive measurement of hadronic channels between 2 and 3 GeV from BESIII

Wednesday, 24 November 2021 14:10 (20 minutes)

Presenter: ZHOU, Xiaorong (University of Science and Technology of China)

Session Classification: Day 1

Contribution ID: 8

Type: **not specified**

e^+e^- to χ_{c1} at BESIII

Wednesday, 24 November 2021 14:30 (20 minutes)

Presenter: GUO, Yuping (Fudan University)

Session Classification: Day 1

Contribution ID: 9

Type: **not specified**

LO and NLO FSR studies with BABAR in $e^+ e^- \rightarrow \pi^+ \pi^- \gamma$ (gamma)

Wednesday, 24 November 2021 14:50 (20 minutes)

Presenter: DAVIER, Michel

Session Classification: Day 1

Contribution ID: **10**

Type: **not specified**

Recent ISR measurements at BaBar

Wednesday, 24 November 2021 15:10 (20 minutes)

Presenter: LUKIN, Peter (Budker Institute of Nuclear Physics and Novosibirsk State University)

Session Classification: Day 1

Contribution ID: **11**

Type: **not specified**

Title TBC

Session Classification: Day 1

Contribution ID: 12

Type: **not specified**

Experimental asymmetry in CMD3 2pi data vs prediction

Wednesday, 24 November 2021 15:40 (20 minutes)

Presenter: IGNATOV, Fedor (Budker Institute of Nuclear Physics)

Session Classification: Day 1

Contribution ID: 13

Type: **not specified**

Discussion on e+e- data

Wednesday, 24 November 2021 16:00 (20 minutes)

Session Classification: Day 1

Contribution ID: 14

Type: **not specified**

Strong2020 report

Wednesday, 24 November 2021 16:20 (20 minutes)

Presenter: DRIUTTI, Anna

Session Classification: Day 1

Contribution ID: 15

Type: **not specified**

Discussion on web page, database, missing channels etc...

Wednesday, 24 November 2021 16:40 (20 minutes)

Session Classification: Day 1

Contribution ID: 16

Type: **not specified**

MCGPJ and ReneSANCe MC event generators: status and perspectives

Thursday, 25 November 2021 14:00 (15 minutes)

Presenter: ARBUZOV, Andrej

Session Classification: Day 2

Contribution ID: 17

Type: **not specified**

BABAYAGA MC generator: status and prospects

Thursday, 25 November 2021 14:15 (15 minutes)

Presenter: CARLONI CALAME, Carlo Michel (Istituto Nazionale di Fisica Nucleare)

Session Classification: Day 2

Contribution ID: **18**

Type: **not specified**

PHOKHARA MC generator: status and prospects

Thursday, 25 November 2021 14:30 (15 minutes)

Presenter: CZYZ, Henryk (Inst. of Physics, Univ. of Silesia)

Session Classification: Day 2

Contribution ID: 19

Type: **not specified**

KKMCee/BHLUMI/BHWIDE MC generators: status and prospects

Thursday, 25 November 2021 14:45 (15 minutes)

Presenter: JADACH, Staszek

Session Classification: Day 2

Contribution ID: 20

Type: **not specified**

KKMC: new tau decays, New Physics vector/scalar resonances

Thursday, 25 November 2021 15:00 (15 minutes)

Presenter: WAS, Zbigniew Andrzej

Session Classification: Day 2

Contribution ID: 21

Type: **not specified**

Discrepancies between current MC generators

Thursday, 25 November 2021 15:25 (15 minutes)

Presenter: IGNATOV, Fedor (Budker Institute of Nuclear Physics)

Session Classification: Day 2

Contribution ID: 22

Type: **not specified**

Radiative corrections to $e^+e^- \rightarrow \pi^+\pi^-$ based on a dispersive approach

Thursday, 25 November 2021 15:40 (20 minutes)

Presenter: COLANGELO, Gilberto (Berna University)

Session Classification: Day 2

Contribution ID: 23

Type: **not specified**

Perspectives from theory on $e^+e^- \rightarrow 2\pi$ and $e^+e^- \rightarrow 3\pi$

Thursday, 25 November 2021 16:00 (20 minutes)

Presenter: HOFERICHTER, Martin (University of Bern)

Session Classification: Day 2

Contribution ID: 24

Type: **not specified**

Mix leptonic and hadronic contribution to a_{μ}^{HLO}

Thursday, 25 November 2021 16:20 (10 minutes)

Presenter: TEUBNER, Thomas (University of Liverpool)

Session Classification: Day 2

Contribution ID: 25

Type: **not specified**

Discussion: Towards NNLO MC generators for e^+e^- -> hadrons, leptons

Thursday, 25 November 2021 16:30 (30 minutes)

Session Classification: Day 2

Contribution ID: 26

Type: **not specified**

Space-like method for hadronic vacuum polarization contributions to muon $g-2$

Friday, 26 November 2021 14:00 (20 minutes)

Presenter: LAPORTA, Stefano (BO)

Session Classification: Day 3

Contribution ID: 27

Type: **not specified**

Status of MUonE

Friday, 26 November 2021 14:20 (20 minutes)

Presenter: MARCONI, Umberto (Istituto Nazionale di Fisica Nucleare)

Session Classification: Day 3

Contribution ID: **28**

Type: **not specified**

MUonE analysis status

Friday, 26 November 2021 14:40 (15 minutes)

Presenter: ABBIENDI, Giovanni (Istituto Nazionale di Fisica Nucleare)

Session Classification: Day 3

Contribution ID: 29

Type: **not specified**

Analytic evaluation of the NNLO virtual corrections to muon-electron scattering

Friday, 26 November 2021 14:55 (20 minutes)

Presenter: MANDAL, Manoj Kumar (Istituto Nazionale di Fisica Nucleare)

Session Classification: Day 3

Contribution ID: **30**

Type: **not specified**

MC developments towards NNLO

Friday, 26 November 2021 15:15 (20 minutes)

Presenter: ENGEL, Tim

Session Classification: Day 3

Contribution ID: 31

Type: **not specified**

Towards muon-electron scattering at NNLO

Friday, 26 November 2021 15:45 (20 minutes)

Presenter: BUDASSI, Ettore

Session Classification: Day 3

Contribution ID: 32

Type: **not specified**

Hadronic contribution to the muon anomalous magnetic moment within DPT

Friday, 26 November 2021 16:05 (15 minutes)

Presenter: NESTERENKO, Alexander (JINR)

Session Classification: Day 3

Contribution ID: 33

Type: **not specified**

Preparing for MUonE experiment —what can we learn from lattice and dispersive data?

Friday, 26 November 2021 16:20 (15 minutes)

Presenter: KRSTIC MARINKOVIC, Marina (ETH Zurich)

Session Classification: Day 3

Contribution ID: 34

Type: **not specified**

Lattice calculation of the short and intermediate time windows contributing to the leading-order HVP term of the muon a_{μ}^{-2} using twisted mass fermions

Friday, 26 November 2021 16:35 (15 minutes)

Presenter: GAGLIARDI, Giuseppe (Istituto Nazionale di Fisica Nucleare)

Session Classification: Day 3

Contribution ID: 35

Type: **not specified**

Discussion/Conclusion/End of the Workshop

Friday, 26 November 2021 16:50 (10 minutes)

Presenters: KUPSC, Andrzej (Uppsala University); VENANZONI, Graziano (Istituto Nazionale di Fisica Nucleare)

Session Classification: Day 3