

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

Wednesday, 24 November 2021 - Friday, 26 November 2021



Book of Abstracts

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Introduction

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

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e^+e^- to χ_{c1} at BESIII

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

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Recent ISR measurements at BaBar

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Title TBC

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Experimental asymmetry in CMD3 2pi data vs prediction

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Discussion on e+e- data

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Strong2020 report

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

Day 2 / 16

MCGPJ and ReneSANCe MC event generators: status and perspectives

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BABAYAGA MC generator: status and prospects

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PHOKHARA MC generator: status and prospects

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KKMCee/BHLUMI/BHWIDE MC generators: status and prospects

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

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Discrepancies between current MC generators

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

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

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

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Discussion: Towards NNLO MC generators for $e^+e^- \rightarrow$ hadrons, leptons

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

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Status of MUonE

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MUonE analysis status

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

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MC developments towards NNLO

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Towards muon-electron scattering at NNLO

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Hadronic contribution to the muon anomalous magnetic moment within DPT

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

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Lattice calculation of the short and intermediate time windows contributing to the leading-order HVP term of the muon $g-2$ using twisted mass fermions

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Discussion/Conclusion/End of the Workshop

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